

HUB

DIGITAL

LIVING

Time to Go

Back to School

BUYING A PC OR LAPTOP
BEST OF STUDENT GADGETS
ONLINE ENCYCLOPEDIAS

GET IN THE GAME: VIDEOGAME DESIGN SCHOOLS
TEST LAB: SMART PHONES AND PDAs



Digital Imaging

Home Entertainment

Personal Computing

Total Gamer

Wireless

Letter from the Editor 4

Section breakdown

Digital Imaging
Home Entertainment
Personal Computing
Wireless
Total Gamer



Feature

Test Lab 6
HUB looks at some back to school PDAs and smart phones

Total Gamer

In the Groove 9
Still Life, Fantastic 4, Conker: Live and Reloaded 10
Handheld reviews: Kirby: Canvas Curse and more 12

Get in the game 14
Videogame design post-secondary

Contests

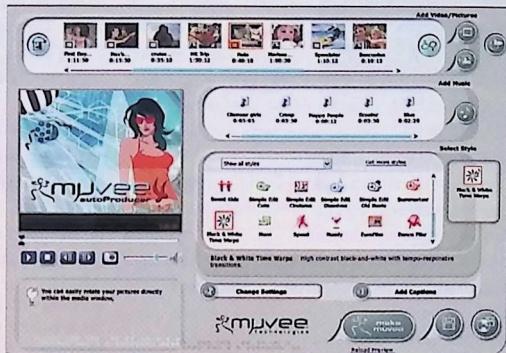
Letter of the Month 4



In selected regions ... and online

Not all stories run in all regions due to space constraints. Check our online archives for the full index of stories across all regions at www.hubcanada.com.

- Digital Photography Tutorial
- Online encyclopedias
- Moving to Mac
- Back to school gadgets



Editorial



Gearing up to go back to school used to mean plaid pencil cases, Velcro binders, coloured subject dividers and various pens, pencils, protractors and the like. Now, gearing up has as much to do with personal digital assistants (PDAs), PCs, cell phones and assorted other tech tools ... or toys, depending on your perspective.

Organization is often a sticking point for students. The year starts off with the best of intentions, but within a few weeks, some students are invariably searching around in cluttered book bags for a pen, asking more organized peers for a copy of yesterday's notes or what time the math exam is next week. At the post-secondary level, a host of new ... distracting factors are introduced, making organization that much more difficult. Keeping track of due dates, class schedules, assignments and tests is easier than in days past thanks to technology. Students can keep appointments up to date on a home PC or mobile laptop, all the while syncing — either directly or over the airwaves — using PDAs, online calendars, a smart phone or similar. With a wealth of tech tools at a student's disposal, keeping organized is theoretically easier than ever. The one thing that hasn't changed from the days of pen and paper-based organization is that the tool is only as effective as its end user.

Technology has always been sold as a solution to make our lives easier, more productive and more enjoyable,

leaving more leisure time that generations past enjoyed. While it's almost universally understood that this utopian future vision from days past is a far cry from reality, personal technology can still be empowering.

And while many of the devices we have access to today are powerful tools, they are often also powerful entertainment devices. It's all about balance, as they say.

Enjoy the issue,
Andrew Moore-Crispin
Editor-in-Chief

Last month, we asked for your suggestions on the best gadget for back to school.

Vi Phung writes: Most students don't even know about the existence of what is called a digital notepad. It is basically a notepad with embedded electronics to capture and store everything you write so you can transfer it to your computer or PDA.

I found a \$100 digital notepad such as the ACECAD DigiMemo 692 with 32MB of memory much more useful than my \$500 iPAQ when it comes to taking notes in lectures. After school, the day's notes can be downloaded to a PC and sent to everyone. If you are sick and missed a lecture, no problem, just ask your classmate to take notes on his digital notepad and email you the notes after school. No need to beg your classmate to let you borrow his/her lecture notes. No need to spend time lining up at the photocopy machine. My \$80 digital notepad got me through four years of Engineering school. This is one of the best investments I had ever made.

Letter of the Month

Our Letter of the Month comes from Denis Wong who writes:

I think PDAs, being quite small, and with their ability to store tonnes of reminders (versus the standard paper organizers) are quite ideal for students. Price shouldn't be a factor: the cheapest mainstream PDA is a Palm Zire 21, at \$118.99. Students could go beyond that and get better ones equipped with a music player (sure, not as good as MP3 players or iPods, but oh well), photo organizers, even one with a 1-megapixel camera ... and of course there are the tons of free add on programs. In short, it's a miniature PC small enough to fit in the hand. It beats the cell phones that everyone carries around, and it's one of the few gadgets that can turn that mark of 60 into an 80.

For his letter, Denis wins a copy of McAfee's Internet Security Suite 2005. Congratulations Denis.

HUB

DIGITAL LIVING

Volume 18 • Number 8

EDITORIAL

Editor-in-Chief Andrew Moore-Crispin andrew@ppublishing.ca
Editorial Assistant Erin Bell erin@ppublishing.ca

Contributing Editors Sean Carruthers Ray Richards, Lee Rickwood Marc Saltzman, David Tanaka

Art Director Steven Stoner

Advertising Sales

ONTARIO/TORONTO

Corporate Account Managers Ralph Ventriglia ralph@ppublishing.ca

Ad Sales Karim Rizk karim@ppublishing.ca

Vik Deonanan vik@ppublishing.ca

Heather Knight heather@ppublishing.ca

Karim Sahnine karims@ppublishing.ca

Montreal Vivian Jin vivian@ppublishing.ca

Western Canada Jason Hay jason@ppublishing.ca

Business Group

President/Publisher Scott Piccolo scott@ppublishing.ca

V.P. Finance and Operations Frank Diecidue frank@ppublishing.ca

Production Coordinator Christie Swail christie@ppublishing.ca

Production Assistant Liz Van Der Wee liz@ppublishing.ca

Distribution Manager Scott Robichaud scott@ppublishing.ca

Office Administrator Malenie Rajaram malenie@ppublishing.ca

IT Manager Steve Quinney steveq@ppublishing.ca

Piccolo Publishing Inc (Head Office)

775-B The Queensway, Toronto, ON, M8Z 1N1
Tel: 416-348-9666 Toll-free: 866-757-0129
Fax: 416-348-9553

Canadian Publication Mail,
Sales Product Agreement #4103518. Printed in Canada.
ISSN 1710-0143 HUB: Digital Living (B.C. ed.)
ISSN 1710-0151 HUB: Digital Living (Calgary ed.)
ISSN 1710-016X HUB: Digital Living (Edmonton ed.)
ISSN 1710-0178 HUB: Digital Living (Eastern ed.)
ISSN 1710-0186 HUB: Digital Living (Montreal ed.)
ISSN 1710-0194 HUB: Digital Living (Prairie ed.)
ISSN 1710-0200 HUB: Digital Living (SW Ont. ed.)
ISSN 1710-0216 HUB: Digital Living (Toronto ed.)

HUB: Digital Living is published monthly by Piccolo Publishing Inc. All rights reserved. Reproduction in whole or in part without the permission of the publisher is strictly prohibited. The information presented here is compiled from sources believed to be accurate, however, the publisher assumes no responsibility for errors or omissions. The publisher reserves the right to refuse ads. The opinions expressed in the articles and columns and ads are those of the writer/advertiser and not necessarily those of HUB: Digital Living.



Write Right. *The First Time.*

Introducing the BenQ DW1640, featuring anti-coaster technology.



Burn it with Write Right

With the DW1640 all-in-one digital media solution, you can digitally preserve your precious photographs and home movies on DVD or CD, ready for playback in most DVD players and computer CD/DVD drives. Additionally, by utilizing Double Layer technology along with DVD+R DL media you can take advantage of an increased storage capacity of 8.5GB of data per disc, or up to 4 hours of DVD quality video.

With features like Write Right Technology, BenQ QSuite, BenQ QVideo, and the exclusive Dual Cooling System, the DW1640 is a complete media authoring suite.

Available at all Best Buy and Future Shop stores.



© 2005 BenQ Canada Co.



BenQ

Test Lab: PDAs and smart phones

There are several important factors to consider when shopping for a PDA or smart phone. Among them, synchronization, battery life, wireless capabilities, storage space, operating system, text input methods and a host of others.



HP iPAQ h6325

HP's iPAQ h6325 is a slightly more expensive version of the h6320, and for the extra expense, users get an incorporated camera that takes decent shots at 640x480.

Leaning more toward the PDA side of the PDA/phone combo equation, the h6325 includes a tiny snap-on QWERTY thumb board that works well for composing notes, emails, SMS messages etc. but doesn't make dialing out particularly easy. To dial, users either tap buttons on the touch screen or hold down the blue secondary function key to access the number pad. Said number pad is distinct in colour only, using a darker shade of grey than the rest of the thumb board.

By incorporating WiFi in addition to the GSM/GPRS phone functions, the phone is able to connect to retrieve email, surf the Web or instant message anywhere there's a signal. The fact that it's a smart phone running Windows Mobile 2003 means native support for widely-used office documents like Word and Excel and a wide variety of add-on software applications, both free and otherwise.

Users familiar with Pocket PCs will find the phone component an easy adjustment as it's accessed in the same way as any other program. What might take some adjustment though is the fact that the large 3.5-

inch LCD touch screen will have to constantly be cleared of face smudges.

Sony Ericsson p910a

The p910a feels quite natural as a phone. With the flip closed, users have access to a traditional cell phone dial pad. Upon opening it, converting the device into PDA mode, a tiny but still usable removable QWERTY keypad useful for composing emails, SMS messages, inputting appointments or contacts and so on is revealed. The tiny keypad with character buttons that are longer than they are wide takes some getting used to but is surprisingly usable, despite the fact that the individual keys are about 6x3.5 mm (LxW) spaced 1 mm apart.

The organizer functions are well thought out and integrate with existing PC calendaring and organization programs like Outlook and iSync. Some end-users of both software suites have reported synchronization problems. We experienced none using Microsoft's Outlook. Relative to other phones with PDA functions tested here and previously, the p910a feels a bit sluggish when opening programs or changing functions. Thanks to its well thought out organization, email and web browsing functions, though, it's by no means a terminal blow.

With onboard utilities for viewing common email attachments such as Microsoft Word and Excel files and Adobe PDF, the p910a is an excellent solution for mobile professionals.

An incorporated VGA (640x480) still camera and 176x144 video recorder sweeten the deal.

While users can connect over the cell network (thus incurring data charges) and to other devices via Bluetooth and infrared, the only thing missing is WiFi connectivity. Perhaps in a future iteration of the already well received line.



Info Box

Processor	Price	Weight
Processor (MHz)	1.7	10.5
Screen size / resolution	3.7 / 640x480	
Operating system	Windows Mobile 2003	
Text entry	QWERTY, 12-key, trackball, handwriting	
Connectivity	Bluetooth, infrared, WiFi	
Memory	256MB	
Removable storage	expandable storage	
Phone books	1000	
Meeting notes	1000	
Connectivity	data, email, infrared, Bluetooth, WiFi	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor clock	1.7MHz	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache	128KB	
Processor memory	256MB	
Processor power	1.7MHz	
Processor type	ARM	
Processor speed	1.7MHz	
Processor cache		



Excellence.

Seanix Technology sets the standard for excellence and service with a long history of bringing innovation to customers. We appreciate your consistent first-to-market support of Microsoft® hardware, software, and operating systems. Congratulations on expanding your business and market reach with your purchase of A&B Sound. We just wanted to say thank you—here's to continued growth in FY06!



Thank you Seanix.



Nokia 6670

Where many smart and PDA phones include options for text entry – touch screen block, handwriting recognition or keypad – Nokia's 6670 sticks with the alphanumeric pad found on any standard phone. Its T9 word completion / recognition makes things easier and, with a few exceptions, works very well to speed up text entry.

As a stand-alone organizer it's lacking (in this case a full-function PDA or PDA phone is a better way to go), but synced

with a PC where appointments are logged and maintained, it works well.

The 6670 is also the smallest of our roundup and as such, and given that it's a "world phone [850/900/1800/1900]" it travels nicely.

For good or ill though, it's a phone first and everything else second.

A 1-megapixel camera takes excellent stills and video, and relatively large pictures are automatically scaled down when sent as a multimedia message (MMS).

The 6670 comes preloaded to view common attachment types like Microsoft Office, and PDF documents can be decoded and viewed on the screen.

Dell Axim X50 520MHz

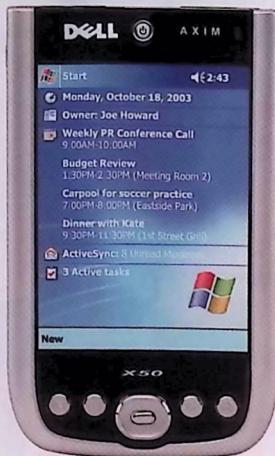
Dell's X50 is the latest instalment in the company's relatively inexpensive but full-featured Axim line.

The X50 520MHz as tested incorporates WiFi, Bluetooth and infrared connectivity, though Dell has yet to enter the smart phone space. A more barebones model strips the WiFi and scales the processor back to 416MHz via Bluetooth, users can wirelessly connect with a similarly equipped cell phone to dial using the PDA's contact directory or to get online but it's an inelegant solution relative to an all-in-one device.

The company has greatly improved the design from the bulky original, shrinking the device and cladding the back in black, tactile rubberized plastic that makes the unit easy and comfortable to hold.

Incorporating both CF and SD/MMC into a single opening on the top of the X50, the device is SDIO (secure digital input/output) compatible so that the SD slot can be used with a variety of add-on SDIO components like GPS receivers, cameras among others.

By Andrew Moore-Crispin



Info Box

www.nokia.ca Price: \$399.95 Weight: 100g
Dimensions (WxHxD): 119.6x72.1x17.9mm Screen size / resolution: 176x220
Operating system: Symbian OS v6.0 Text entry: Handwriting, numeric keys with T9 word recognition
Available storage: 100MB Expandable storage: MMC, 3.5mm-mmc
Phone bands: 850/900/1800/1900MHz
Battery type: Li-Ion / standby time: 4h / talktime: 2.5h
Processor type: Processor: TI OMAP 320MHz / Connectivity: 802.11b/g, Bluetooth, 3G, GPRS, 3.5mm-mmc

Price:
Dimensions (WxHxD):
Screen size / resolution:
Operating system:
Text entry:
Available storage:
Phone bands:
Battery type:
Processor type:

Price:
Dimensions (WxHxD):
Screen size / resolution:
Operating system:
Text entry:
Available storage:
Phone bands:
Battery type:
Processor type:

Info Box

www.dell.ca Price: \$499.95 Weight: 187g
Dimensions (WxHxD): 119.6x72.1x17.9mm Screen size / resolution: 176x220
Operating system: Microsoft Windows Mobile 5.0 Second Edition Text entry: Handwriting, handwriting recognition, virtual keyboard
Available storage: 128MB Expandable storage: SD / CF
Phone bands: 850/900/1800MHz / Battery type: 1100 mAh
Battery life: 10 hours (playback with screen brightness and application use)
Processor type: Intel XScale PX4270, 500MHz
Connectivity: Bluetooth 2.0, 1 To

Price:
Dimensions (WxHxD):
Screen size / resolution:
Operating system:
Text entry:
Available storage:
Phone bands:
Battery type:
Processor type:



PCTOYSHOP.com
Accessories Peripherals

www.pctoyshop.com

The online shop for your Computer Accessories

1-866-828-4401

ALLSOP C FALCON LASERLINE maxell mimio PerfectLink prince RITEK spire SUMOEX VIZIFLEX xantrex



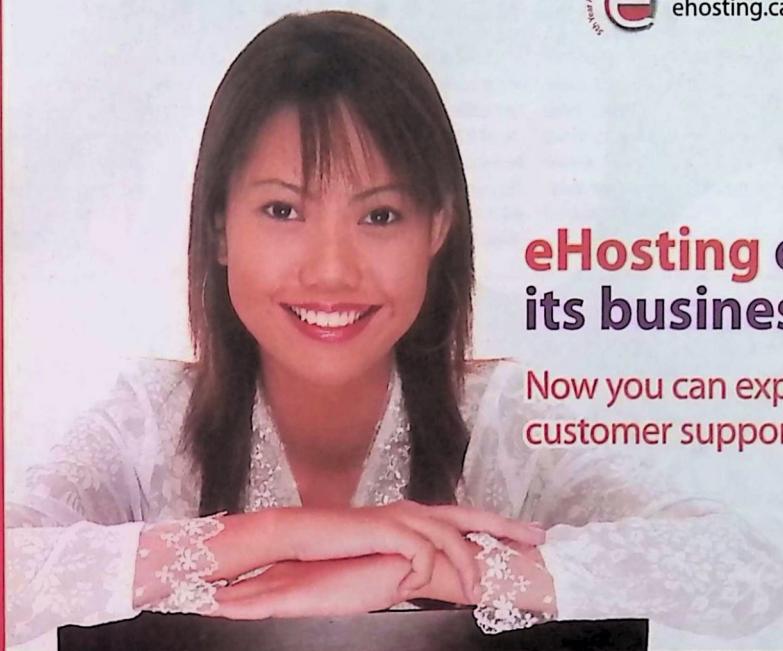


eHosting.ca | Proudly Canadian.



eHosting expands its business to ASIA.

Now you can experience great customer support until 5am EST.



Join us now to experience client care in its most genuine form.

Switch to Us Now. Get First 6 Months Hosting 1/2 Price.

Instant Customer Support in 3 easy ways.
Telephone. Live-Chat. Email.

Reliable Servers. Fast Speed. Great Plans. Affordable Prices.
Outstanding Customer Care.



Web Hosting Plans

StartUp Plan

\$5.95* /month 100 MB. Scripting.
Unlimited Email.

Database Plan

\$9.95* /month 250 MB. Scripting.
Database. Email.

50% off
on hosting
plans

Giga eCommerce Plan

\$29.95* /month 1 GB. Database.
WebStats .SSL.

Dedicated Server

\$99.00* /month 40 GB. Plesk OS.
AMD 2.4GHz.

Call us at **1.866.738.2077** or visit www.ehosting.ca

Final Price. *First 6 months 1/2 price promotion is a mail-in rebate that requires min. 12 months hosting subscription and is valid for hosting purchases only. All hosting plans are eligible except Email, Mini, Micro and Dedicated Server. Please mail-in your rebate by June 30, 2009. See www.ehosting.ca for details. For more information about our extended customer service hours, please visit our website at www.ehosting.ca.

High Speed Internet



\$24⁹⁵
/month
First 3 months

Regular price **\$29.95**

As always: no contract,
no hidden fees,
no limits

No contract

No hidden fees

No limits

www.ca.inter.net
1 800 920-7873

*Taxes are extra. Visit our web site for all details.



Ignition 3.0 Dance Pad

RedOctane's Ignition dance pad controller is pretty much the standard for experiencing the home versions of arcade dancing games like Konami's Dance Dance Revolution. Priced at US\$109.95 (about \$135) it offers the best price-to-quality ratio on the market and represents the middle ground between the cheap and virtually unplayable flat mats and the metal Afterburner pad, whose price is prohibitive to all but DDR fanatics. Constructed out of four hard foam pieces placed inside a zippered shell, the Ignition pad can easily be dismantled and folded for storage, yet there's enough heft to it that it won't slide around on the floor like the cheaper mats do. Each segment of the mat is also textured to more closely

resemble the arcade experience. With the 3.0 upgrade, the Ignition pad is now compatible with PlayStation, PlayStation 2 and Xbox consoles as well as PC (via USB), which covers virtually every home DDR game ever made. The pad can also be used with RedOctane's dancing game, In the Groove.

Visit www.redoctane.com for more details.



BACK TO SCHOOL SPECIAL!

ABMG

www.abmg.ca



On-site Service
Quick Upgrades
Networking



MARKHAM (Head Office)
90 Nolan Court, # 5
Tel: 905-470-1031

DOWNTOWN
137 Yonge St.
Tel: 416-862-9595

TORONTO
1230 Bloor St.W.
416-588-5255

TORONTO
2266 Eglinton Ave. W.
416-784-4151

NORTH YORK
2946 Islington Ave.
Tel: 416-742-0006

MISSISSAUGA
2150 Burnhamthorpe Rd.
Tel: 905-569-8119

THORNHILL
6126 Yonge St.

OSHAWA
1050 Simcoe St. N
416-512-1010
905-720-3822

Business Package

Intel Pentium 4 3.0GHz
Pentium 4 Motherboard
512MB DDR Memory
120 GB Hard Drive
ATX case with 450W P.S.
Floppy
128 MB ATI AGP video card
Sound card 3d
52X LG CD Writer Drive
Ethernet card
USB ports
Keyboard, mouse
& speaker
Price: \$599



Dell Latitude (Refurbished)

Intel Pentium III 600 MHz
128MB RAM
10 GB Hard Drive
CD-ROM Drive
10/100 Network Card
Sound, 56K Modem
14.1" TFT Screen
Windows 2000

Price: \$349



Compaq Evo N600 (Refurbished)

Intel Pentium III 1 Ghz
256MB Ram
30GB Hard Drive
DVD-ROM Drive
Network Card
Sound, 56K Fax/Modem
14.1" TFT Screen
Windows 2000 Pro

Price: \$549



IBM ThinkPad T21 (Recertified)

Intel 800 MHz
128MB Ram
20 GB Hard Drive
DVD-ROM Drive
Network Card
Sound, 56K Modem
14" TFT Screen
Microsoft Windows

Price: \$399



Student Package

AMD Sempron 2500 MHz
AMD Motherboard
256MB DDR Memory
40 GB Hard Drive
ATX Case with 450w P.S.
Floppy
Onboard video card
Sound card 3d
52X LG CD Writer Drive
Ethernet card
USB ports
Keyboard, mouse
& speaker
Price: \$359



DELL Pentium 4 System (Refurbished)

Intel Pentium 4 1.8 Ghz
256MB RAM
20 GB Hard Drive, CD-ROM
CD-ROM, 1.44 Floppy
Sound, Video, NIC
Keyboard & Mouse
Windows 2000 Pro

Price: \$299



OFF LEASE SYSTEMS

Intel Pentium 1 Ghz
128MB RAM
20 GB Hard Drive
CD-ROM, 1.44 Floppy
Sound, Video, NIC
Keyboard & Mouse
Windows 2000 Pro

PIII 1GHZ \$199
PIII 733Mhz...\$139
PIII 500Mhz...\$99



Compaq Evo Pentium 4 (Refurbished)

Intel P4 2.0 Ghz
256MB RAM
40 GB Hard Drive
CD-ROM Drive
Floppy Drive, 10/100 Network
56K Fax/Modem
Sound & Video
Keyboard & Mouse
Win 2000 COA

Price: \$349



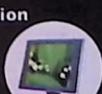
Pentium 4 Gaming System

Intel P4 3.2 GHZ
Pentium 4 Motherboard
1024 MB Dual Channel
DDR-400 RAM
160 GB Hard Drive w/8mb cache
DVD/CD Writer
Logitech X530 5.1 Speakers
with sub woofer
ATI Radeon X800 SE 256MB
AGP Video Card
ATX Case w/450 Watt Power Supply
Antec 2 Sound Card
Ethernet Card/ 10/100
6 USB Ports
Microsoft Keyboard
Microsoft Mouse
Price: \$1099



New 17" Direction LCD Monitor

Price: \$270



19" CRT Monitor
Refurbished
\$89

17" Dell Monitor
(Refurbished)
\$179



15" Direction
LCD Monitor
\$229



25 Pack DVD-R Spindle... \$15.99
128MB USB Pen Drive... \$19.99
256MB USB Pen Drive... \$29.99
512MB USB Pen Drive... \$49.99
1 GB USB Pen Drive... \$79.99

HP Laser Printer
\$59



AND MUCH MORE!!

Prices, availability and specifications are subject to change without notice. Products are not exactly as shown.

Please Note: All New systems include 1 year parts & 3 years labour warranty



The iHome from SDI Technologies (www.ihome-audio.com) is an alarm clock that integrates with your MP3 player so that you can wake up to your favourite playlist each morning. At 23 cm wide by 14 cm long, the iHome is somewhat bigger

than the average alarm clock, but it also doubles as a handy charging

station for an iPod or iPod Mini via the top-mounted docking station. The iHome is optimized for use with a Standard iPod, iPod Photo or iPod Mini, but other MP3 players (including the iPod Shuffle and other manufacturers' brands) can be accommodated by using the included patch cord to connect to the clock's Line-In.

Clock features include battery power back-up, a "Gentle Wake/Gentle Sleep" feature to gradually increase or decrease the alarm volume, and an AM/FM tuner (with included loop antenna for picking up AM frequencies.) The iHome is schedule to hit Canadian stores this month, with a suggested retail price of US\$99 (around \$120).

FJ Computers

BACK TO SCHOOL!!

WWW.FJCOMPUTERS.COM

P4 C2.6GHz/533 \$288
INTEL NEW P4 Celeron 2.6/533
ECS Game Union 533FSB/USB2.0
80G 7200ATA/133 HDD
DDR RAM 128M Module
Xabara 20044 DDR XAGP-
NON-SHARED Video Card
LG 52KCD-ROM
Sound Blaster Compatible
Realtek 10/100 NIC
Front USB 2.0 ATX Case/350W
WIN Keyboard & Scroll Mouse
I20(180W) 3D Stereo SPK
Upgrade RAM to 256MB +\$35
Upgrade CDRW 52X +\$25

OFFICE P4 2.26GHz \$399
ECS Game Union 533FSB/USB2.0
Maxtor 80G/7200ATA/133 HDD
256 MB DDR Ram Module
Xabara 20044 DDR XAGP-
NON-SHARED Video Card
LG 52KCD-ROM
Sound Blaster Compatible
Realtek 10/100 NIC
Front USB 2.0 ATX Case/350W
WIN Keyboard & Scroll Mouse
I20(180W) 3D Stereo SPK

GAMER P4 5303.0/775 \$588
GAMER P4 5403.2/775 \$649
ASUS P58B00-YH 800 FSB/USB2.0
ATI Radeon 9250 128M DDR TV/DVI
HDD 160G/7200 RPM
Major 512 DDR 400,10/100 NIC
SONY 16X DVD+/-R/Rw Dual Layer
SD 6 Channel Compatible
Front USB 2.0 ATX Case/PS.350W
WIN Keyboard & Scroll Mouse
600W 3D Subwoofer Speakers

AMD SP 2500+ \$249
AMD Sp2500+ CPU
ASUS AT58X-MX SATA MB
80G HDD/7200 RPM
RAM 128M DDR333
LG 52KCD-ROM
Real 256E 64M Video ob
Sound Blaster Compatible
Realtek 10/100 NIC
Front USB 2.0 ATX Case/350W
WIN Keyboard & Scroll Mouse
120(180W) 3D Stereo SPK

OFFICE XP 2600+ \$349
AMD GAMER XP3000+\$399
ASUS AT58X-MX SATA MB
Maxtor/WD 80G/7200 RPM
RAM 512M DDR400 Module
ATI Radeon 9250 128M DDA TV/DTI
SONY 16X DVD+/-R/Rw Dual Layer
6 Channel Sound Card OB
Realtek 10/100 NIC (on board)
Front USB 2.0 ATX Case/350W
WIN Keyboard & Scroll Mouse
600W 3D Subwoofer Speaker

AMD GAMER64 3000+\$49
ASUS K8S-MX 8XAGP
Maxtor/WD 160G/7200 RPM
RAM 512M DDR400 Module
ATI Radeon 9250 128M DDA TV/DTI
SONY 16X DVD+/-R/Rw Dual Layer
6 Channel Sound Card OB
Fast Ethernet 10/100 NIC
Front USB 2.0 ATX Case/350W
WIN KB & Scroll Mouse
600W 3D Subwoofer Speaker

Canon S410 \$429
PowerShot 4.0M
3.0xOPT 3.0xDGT
\$299
Canon
PIXMA IP3000
PHOTO PRINTER
\$149
\$95

Canon MFC3110 \$298
All-In-One
Laser Printer
Scanner/Copier
\$399
Canon MP390
All-In-One
Photo Printer
Scanner/Fax
Copier
\$269
\$175

Canon PIXMA MP130 \$115
All-In-One
Photo Printer
Scanner/Copier
\$399
Canon MP780
All-In-One
Photo Printer
Scanner/Fax
Copier
\$329

**SONANCE 40" Silverscreen
100W Wall-mount
Brand New \$1499**
Speaker System
\$499

Konica 1350W \$99.99
Laser Printer
1200x1200 dpi
21PRM
\$199
\$99.99
After US\$30 Mail-In Rebate
brother 210c
Inkjet Flatbed
All-In-One
Printer/Copier
\$149
\$99
After \$50 Mail-In Rebate

Maxtor Ultra \$79
Retail Box HDD
120G 7200 8M
\$129
\$79
60G 7200 2M
\$80
\$59

DESKET5650 \$169
4800X1200colorinkjet
High Ink Volume
\$79
\$79
Photosmart7450
4800X1200 6-ink
Color Printing
\$129
\$88

hp SCANJET4600 \$119
2400X2400dpi opt
up to 9600 48bit
\$59
Energizer UPS
RJ11/45USB
18 Minutes
650VA \$119
450VA \$99
\$69
\$49

DELL E173FP17" LCD \$379
19" FLAT CRT
3 Years Warranty
1600x1200x75Hz 0.21
\$219
\$169

NEST ATX \$119
P4/AMD Case w/400W
Side Window
Two Front-Cold Cathode Lights
Front USB 2.0
Front Mic/SPK Port
\$49
Made In KOREA

**Situations Desk with Tower
Brand New! \$79**
140H x 120W x 56Dcm

Arch-Leg Desk \$49
Brand New!
120Hx122Wx55Dcm
\$169
\$49

D-Link USB ADAPTER \$49
DWL-G120/54Mbps
DWL-120+/22Mbps
\$39

D-Link PCMCIA CARD \$35
DWL-G630/54Mbps
DWL-G650/108Mbps
\$48

**110% Lowest-price
and Price-match Guarantee!**
We've seen a lower advertised price from
another local store with the same item in stock,
we want to know about it. Bring it to our attention,
and we'll gladly beat their price by 10% of the
difference. We'll refund 110% of the difference.

**DELL Latitude C600 Slim Intel P3 CPU ,14.1 TFT 1024X768
128MB, 20G HDD, ATI M3 Video Card, BXDVDROM Floppy
3COM 10/100 LAN, 56K Modem, Sound, Battery, AC Adapter
Dell, 2 PCMCIA, Win 2K/98SE Pre-loaded
P3750 \$399 P3 850 \$469 P3 1.0 \$559**

D-Link ROUTER \$28
DI-614 4 PORT ROUTER
DI-704P wireless server
DI-704UP USB printer server
\$35

DI-614+ /22Mbps \$34
DI-G524/54Mbps
DI-G624/108Mbps
\$39
\$49

D-Link WIRELESS ROUTER \$29
DWL-520+/22Mbps
DWL-G510/54Mbps
\$35

**DELL Latitude C611 Intel P2 366 CPU
13.3 TFT 1024X768, 128MB, 6.4G HDD
Video Card, 24XCDROM, AC Adapter
USB, 2 PCMCIA Slot
Battery \$288 DELL**

All prices are already 4% cash discounted. Other forms of payment will be on regular prices. Prices and availability are subject to change without notice.

416-410-5481 • www.infonec.com • sales@infonec.com



MOTHERBOARDS

ASUS	
PLD2-1/VM/Deluxe	\$163/139/228
PLD2-SU Deluxe	\$269
PSWD2 Premium WiFi	\$265/345
PSR01-V Radeon Xpress	\$119
PSGDC-DX/PSGDCV-DX	\$179/188
PSGDC1-VM	\$128/125
PSP800/PS800-VM	\$59/79
P4P800 SE-VM	\$117/117
ABN-E	\$140
ABN-SLU /Deluxe /Premium	\$175/205/219
ABVE Deluxe/ABV Deluxe	\$148/148
K8N /DL-E Deluxe	\$88/355/139
K8V-SE DX/K8V-X-MX	\$139/85/85

INTEL

955CSLKR	\$299
955BKLKR	\$299
945CZLKR	\$169
MSI	
7100 K8N Neo4 SLI S939	\$179
7100 K8N Neo4 Plat. S939	\$229
7125 K8N Neo4-F S939	\$109
7143 915PL NEO-V	\$95
7028 915P Neo2-Plat.	\$179

ABIT

TYAN

SUPERMICRO

SHUTTLE

CPURAM

AMD

Opteron/Athlon 64 X2 Sempron

INTEL

Xeon/Pentium4/PentiumD

Celoron D

OCZ/GEIL/KINGSTON

PC2-5300/5400/5500

Portable Storage

USB2/FS/SD/UDIMC

OCZ Accessories

ModStream 450W/520W

PowerStream 420

PowerStream 520/600

HD & VGA Power Lead

DDR Booster Diag. Device

HeatSink & RamSink Cu/Al

STORAGE DEVICES

MAXTOR	
300/500/200 (SATA, 16M)	\$229/195/129
300/500/200 (U133, 16M)	\$239/163/119
10KV 73/147/300	\$289/519/1229
15KII 67/3/147	\$275/569/1239

SEAGATE

400/300/250 (NCQ SATA)	\$339/232/163
200/160 (8M, NCQ SATA)	\$139/113
250/200/160 (8M, SATA)	\$165/142/118
Raid Edition 250/160/120	\$189/125/139
320/300/250 (8M, U100)	\$229/13/155

Cheetah 15K 3.3/7/147

15KII 3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

3.3/7/146/300

Samsung YP-MT6XC

Courtesy of Samsung Canada (www.samsung.ca) comes the limited edition "Canadian" version of Samsung's Yp-MT6X digital music player, for those who like to wear their patriotism on their sleeves, or in this case, around their necks. The YP-MT6XC comes in Canuck red with a classic white maple leaf insignia on the back; otherwise, it's identical to the standard YP-MT6X. Features of the \$179.99 player include 512MB of built-in flash memory, a four-line backlit LCD, an FM tuner and recorder, a voice recorder, USB 2.0 connectivity, and support for MP3, WMA, Secure WMA, ASF and Ogg file formats. The company claims up to 45 hours of playback on a single AA battery.



ECS ELITEGROUP MINIMICRO SUPPLY INC. CANADA

www.mini-micro.ca
Notebook Series

G220 12.1" WXGA GLASS TFT LCD Display

Model 1. Intel® Pentium-M 1.6GHz 256MB / 40GB / CD-RW & DVD Combo Drive

Model 2. Intel® Pentium-M 1.6GHz 512MB / 60GB / DVD-RW Drive

Integrated graphic controller: Intel 855GME internal graphics

SMA (Shared Memory Architecture), up to 64MB

10/100 Base-T LAN on board, MDC 56Kbps Fax/Modem on board

Wireless LAN 802.11B/G

4 in 1 Card reader, USB 2.0 ports*3, Audio line out, Mic-in

LAN port, Modem port, VGA-out port, PCMCIA slot, 1394A port (mini jack)

AC'97 2.2, SPDIF out, 5.1 channel support, Built-in two high quality stereo speakers

320.0(W) x 242.0(D) x 22.0(H)mm/28.0 mm, 2.0kg, battery included

149 McLevin Ave. Unit #6
Scarborough, Ontario Canada M1B 3V1
Tel: (416) 321-8898 Toll Free: 1-888-309-8898
Fax: (416) 321-2303 sales@minimicros.com



G220

THE FIRST EVER
NOTEBOOK WITH
1.3-MEGA PIXEL
CMOS CAMERA
BUILT-IN



600 15.4" WXGA (1280 x 800; 16:10) TFT LCD display

Expansion 2 slots of 200pin SO-DIMM DDR module, 2GB total memory capacity.

Support DDR 333 Module

Graphic controller: ATI MOBILITMM RADEON® Hypermemory

2.5" 9.5mm height HD; 5.25" 12.7mm Combo Optical Drive; TV Tuner Built-in;

Remote Control; PCMCIA slot, 4 in 1 Card Reader, 1394 (Mini Jack), VGA out port,

TV out port, LAN port, Modem port, USB 2.0 port*4, Coaxial SPDIF out, Mic-in,

MCE port, TV-in connector (cable), 5.1 channel support

Built-in two high quality stereo speakers on sides of K/B and one subwoofer

10/100/1000Mbps Gigabit Ethernet on board;

Intel® PRO / Wireless 2915ABG (802.11a/b/g) network connection

363.0(W) x 281.0(D) x 27.0(H)mm/30.0 mm; 3 kg with 15.4" panel, 4 cell battery and Optical drive installed



Media Center Notebook

G553 15" XGA TFT LCD Display

Model 1. Intel® Pentium-M 1.5GHz 256MB / 40GB / CD-RW & DVD Combo Drive

Model 2. Intel® Pentium-M 1.7GHz 2MB Cache 512MB / 80GB / DVD-RW Drive

Intel® 855GM/GME, Support FSB 400MHz

SMA (Sharing Memory Architecture), 64MB Max, Wireless LAN 802.11B/G

10/100 Base-T LAN on board MDC Fax/modem V.90/V.92+802.11b on board

2 x USB2.0 ports, Parallel port, VGA port, 1394a, TV-Out, Head phone(SPDIF), Mic-in

326(W) x 258(D) x 25.3(H) mm/32mm, 2.3kg, battery included

1-888-309-8898

Call Today

For Price & Detail !



536 15" XGA TFT LCD Display

Mobile AMD® Sempron™ Processor 2600 256MB / 40GB / CD-RW & DVD Drive

VIA K8N800 with embedded 3D engine, AGP 8X, SMA up to 64MB DDR SDRAM

10/100 Base-T LAN on board, Built-in MDC 56Kbps FAX/Modem, Wireless LAN 802.11B/G

Mic-in, Audio line out, Modem port, LAN port, USB 2.0 port*2(left), DC -in jack, USB 2.0 port*2(rear), TV-out port,

VGA out port, parallel port, 326.0(W) x 285.0(D) x 25.3(H)mm/32.0 mm, 2.6 kg, battery included



Plug Into A Brand-new World

1 01010101010101010

The technology and quality we built into each and every one of our cards has earned us the great name, "Golden Card".



USB4212U
USB2.0 4+1 ports Card



FW3010
IEEE1394A 3+1 ports Card



UFC3212U
USB2.0/1394A Combo Card



SATA2000
Serial ATA 2 channels Card



IDE4700
ATA 133 2 channels Card



4037RA
RS-232 2 ports PCI Card



4006RA
Parallel 1 port PCI Card



4079P
RS-232/Parallel Multi-10 Card



EH02000M
3.5" USB2.0 Enclosure



CBU2200
USB2.0 2 ports 32bit CardBus



SHB1200MA
USB2.0 4 ports slim HUB



UTS4009P
USB to 4 ports RS-232 HUB

Dealers Welcome

SUNIX
www.sunix.com.tw

MIT

351 Ferrier Street, Unit #1
Markham, Ontario
L3R 5Z2
Tel: (905)307-3333

Toronto Downtown Showroom:
BM Electronics
312 College Street, Toronto, Ontario M5T 1S3
Tel: (416)922-6789

Laptop Closeout .com Since 1996

Quality excellence & Exceptional Value Refurbished Laptops

- ✓ Software Package
- ✓ Money Back Guarantee
- ✓ Internet Ready
- ✓ Up to 70% Off

BLOWOUT SALE

IBM PIII & P4 Laptops

IBM Thinkpad A Series, all in one	From \$499
IBM Thinkpad T Series, Slim Design	From \$599
IBM Thinkpad X Series, Mini Laptop	From \$699

From **\$499.00**

DELL PIII & P4 Laptops

Dell Latitude C600 Series, Slim Design	From \$499
Dell Latitude C800 Series, all in one	From \$699
Dell Latitude C400 Series, Mini Laptop	From \$899

From **\$499.00**

COMPAQ PIII & P4 Laptops

Compaq Armada Series,	From \$599
Compaq Evos Series, Slim Design	From \$749
Compaq Presario Series,	From \$999

From **\$599.00**

HP PIII & P4 Laptops

HP Omnibook Series,	From \$699
HP Pavilion ZE Series,	From \$899
HP Pavilion ZT Series,	From \$999

From **\$799.00**

Refurbished Laptops Wholesale & Retail

from PIII 750Mhz to P4 3.4Ghz with DVDR
from 12" Mini laptops to 17" wide screens
Call or Visit Website for Availability
www.Laptopcloseout.com

Showroom in Downtown Toronto on Bay & Bloor
@ 70 Yorkville Ave.
416-975-0748

JVC launches new product line

JVC recently unveiled new additions to its consumer electronics product lines in simultaneous press events held in major centres around the globe.

Attending the Toronto conference, HUB got a chance to see the next iterations of JVC televisions, camcorders, digital audio players and home stereos.

Using JVC's own award-winning sake-soaked wooden cone speaker design, the EX-D1 and EX-D5 allow for a direct connection, wired and wireless respectively, to a home PC or laptop for streaming existing digital audio. The wood cone speakers produce richer and more authentic tones, JVC says and have won design awards in the company's native Japan.

Perhaps the company's biggest announcement was a refresh of the Everio line of hard drive storage camcorders.

Where previous models allowed for up to 10GB of storage, the latest G series Everio camcorders, (GZ-MG20 and 30) store 20GB and 30GB, enough for just over seven and just under five hours of DVD movie quality footage respectively.

The Everio product line is broken down further along lens quality lines with the 20GB and 30GB step-up models (GZ-MG40 and 50) incorporating better lens optics and a 1.33 CCD. Prices run between \$1,000 to \$1,200. Look for our full review next month.

Senior Sales Manager Dai Shibata drew parallels between the progression from tape to CD to hard drive-based audio player market and the camcorder market, emphasizing the convenience associated with not having to travel with storage media or having to source said media in the field.

The latest addition to JVC's line of HD rear projection TVs were also shown off. JVC engineered exclusive technology called D-ILA or direct drive light amplifier for image projection and appears in the company's five latest projection models. This three-colour technology eliminates the colour wheels often associated with DLP televisions and the through-the-LCD projection methods some manufacturers use to offer a brighter, high contrast and flicker-free image, the company says. Seven LCD televisions from 26 to 40 inches were also on display.



The Comfort of Protected Internet Service

"I want to thank you for your virus control. I am delighted with it and it has stopped the earlier problems I was having. Thank you again."



At Pathway Communications, we work hard to ensure that your connection is always up and free of problems such as viruses and spam. On average, an unprotected Internet user receives ten to twenty spam messages each day, and is infected with a virus five to ten times each month. As a Pathway client you enjoy the comfort of an exceptionally fast, secure and trouble-free Internet service.

Pathway's High Speed Internet Service comes with a complete suite of valuable features, including **web based email**, **web site**, **spam and virus control** and **24 hour technical support** which is the envy of other ISPs.

High-speed Internet Services	Dial-up Internet Services	Web and Email Hosting
FastPath: \$34.95 per mo. <ul style="list-style-type: none">• 3.0 Mbps x 800 Kbps• 5 Personal email accounts• 5 web spaces (10 Mb each)• Web-based organizer• Free dial-up access: 15 hrs/mo.	\$9.95 per mo. <ul style="list-style-type: none">• 50 hrs access• 2 Mb web space• 1 email account	\$19.95 per mo. <ul style="list-style-type: none">• 150 hrs access• 7 Mb web space• 3 email accounts
LightPath: \$29.95 per mo. <ul style="list-style-type: none">• 256 Kbps x 256 Kbps• 5 Personal email accounts• 5 web spaces (10 Mb each)• Web-based organizer• Free dial-up access: 15 hrs/mo.	\$14.95 per mo. <ul style="list-style-type: none">• 100 hrs access• 5 Mb web space• 2 email accounts	\$25.95 per mo. <ul style="list-style-type: none">• 350 hrs access• 12 Mb web space• 5 email accounts
	Unlimited Dial-up Access: \$25.95 per mo. 9 Mb web space	\$59.95 per mo. • 200 Mb web space • 40 email accounts

BUSINESS INTERNET SOLUTIONS

Broadband: 4.0 to 16.0 Mb • T1 • Fiber Optic: 2.0 Mb to 10.0 Mb • Wireless: up to 10 Mb • Server Co-Location



Canada's Only
ISO 9001 Certified ISP

105 Commerce Valley Dr. W, Suite 500,
Markham, ON L3T 7W3 info@pathcom.com

www.pathcom.com
416-214-6363

Digital Photography Tutorial 18

Restoring Photos

Part 3: Repairing the ravages of time

In this third part on photo restoration, we'll look at some tools available to repair physical damage to photographs. Damage can include overall fading, mould and water damage and physical damage through cracks and tears.

One simple method of fixing a photo that is very faded or overexposed is to apply a Multiply blend mode to a duplicate layer. This tool is available in many popular image-editing packages including Photoshop,



U Computers

For more price, please check
www.ucomputer.ca

WE OPEN 7 DAYS A WEEK!
MON-FRI: 10AM-7PM
SAT-SUN: 10AM-5PM

HEAD OFFICE Scarborough:
4002 Sheppard Ave E, #108



416-293-9933

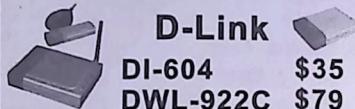
All systems Now with
2 Years
labor & 1 year parts
Warranty

Mississauga:
289 Dundas St E, Unit 2



905-361-1979

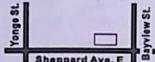
** Monthly Special **



D-Link

DI-604 \$35
DWL-922C \$79

North York:
386 Sheppard Ave. E



416-250-5588

Intel Celeron 2.4G \$298
ASROCK P4VM8 SATA intel.
DDR400 256M/LAN
80G 7200RPM/SOUND
LG 52X32X52 CDRW
64M Video On Board
Case Front USB 400W
K.B / OPTICAL MOUSE / SPK
Celeron 2.6G/2.8GD \$308/\$318

Intel P4-530 3.0GE \$618
ASUS P5P800 M.B / SOUND DVD
DDR400 512M PC3200
W.D 160G 7200 rpm 8M
LG 16X DVD+/-RW /G-LAN
MSI NVIDIA Fx5200 128M
MIDTOWER CASE /450W Front USB
Optical MS & Multimedia K.B
2.1 SUBWOOFER SPK
540-3.2G / 550-3.4GE \$668/\$738

Intel P4 - 2.4G \$438
ASUS P4S800D-X 4xSATA
DDR 400 256M / SOUND
WD 80G 7200RPM H.D / LAN
LG 16x DVD & 52x CDRW
ATI Radeon 9250 128M TVO
CASE / 400W Front USB
OPT MS & Internet K.B & SPK
P4-3.0G / 3.2GE \$498/\$548

AMD64 939 3.0GE+\$18
GIGABYTE K8NF -9nForce4 M.B
1024M (2x512M) DDR400 Pc3200
W.D 160G 8M H.D/SOUND
LG 4163 16X DVD+/-RW
ATI Rx300se 256M DVI PCI-E
Midtower Case /450W Dual Fan
Multimedia K.B & Optical MS
600W 2.1 SUBWOOFER SPK

AMD939 3000/3500+ \$678/\$818
ASUS P5GPL 915PL G-LAN
1024M DUAL CHAN DDR400
ATI X600PRO 256M 16xPCIE
LG 4163 16X DVD+/-RW
W.D 200G SATA HD/SOUND

ATI R9500 128M PC4200

AMD 64 2800+ \$478
ASUS K8N nFroce3 SATA
DDR400 512M RAM/LAN
80G 7200RPM H.D/SOUND
LG 4163 16X DVD/RW
ATI R9250 128M TVO
Case Front USB / 400W
Optical MS & KB & SPK
64 3000/3200+ \$508/\$558

Intel P540J - 3.2GE \$868
ASUS P5GPL 915PL G-LAN
1024M DUAL CHAN DDR400
ATI X600PRO 256M 16xPCIE
LG 4163 16X DVD+/-RW
W.D 200G SATA HD/SOUND
Side Window Case/550W Dual Fan
Wireless Keyboard & Optical Mouse
Altec Lansing 2.1 Subwoofer SPK

P530-3.0G/550-3.4G \$828/\$948

Intel P4-530J 3.0G \$528
ASUS P5S800-VM M.B 915G
DDR400 512M PC3200
W.D 160G 8M IDE H.D
LG 4163 16X DVD+/-RW
INTEL Graphics Media A900 O/B
INTEL 10/100 LAN & SOUND
Case Front USB / 450W
Internet KB, OPT MS, SPK
540-3.2G/550-3.4G \$578/\$648

Super P630 3.0GE 2M \$978
ASUS P5GDC - DX M.B 915P
DDR2 533 1024M PC4200
W.D 200G SATA 7200/8M H.D
LG 4163 16X DVD/RW
8-Chan Sound & Gigabit LAN O/B
ATI/Sapp X600PRO 256M 16x PCIE
Side Window Case/550W Dual Fan
Logitech Wireless Optical K.B & M.S
Logitech X-530 5.1 Sub-W SPK
P4-640/650 \$1048/\$1168

LCD & CRT SPECIAL

17" PANDA L171 LCD \$249
17" ACER 1715B LCD \$265
17" LG L1750S 550-112ms \$285
17" SAMSUNG 710N 12ms LCD \$308
19" ACER 1913B 800:1 LCD \$368
19" LG 1950S LCD 500:12ms \$385
19" BENQ 931D digital LCD \$398
19" SAMSUNG 915N LCD 700:1 \$438
19" SAMSUNG 913T digital LCD \$468
17" IBM NON-FLAT CRT Refur \$48/65
17" LG T710MH FLAT W/SPK \$118

Hard Drive

USB 2.0 128M/256M/512M \$18/28/43
(2M)80G/120G \$63/85
(8M)80G/160G/200G \$68/93/112
(8M) 250G/320G \$133/198
(SATA 8M) 160G/200G/250G \$97/117/137
2.5" 5400RPM 40G/60G/80G \$82/98/139
DVD/CDRW



LG 16x DVD-ROM \$25
LG 52x32x52 CDRW \$27
LG 16xDVD & 52x CDRW \$42
LG 4163 16x DVD+/-RW \$53
NEC 3540 16X DVD+/-RW \$56
PIONEER 109 16X DVD+/-RW \$58

Video Card

Mercury TV TUNER CARD/Remote
WinFast TV 2000XP Expert \$38
ATI Radeon 9250 128M TVO DVI \$63
MSI Fx5200 128M AGP DVI TVO \$43
ATI R9500 256M/9600PRO 256M \$48
ASUS 6200GETC256 64M Turbo -C PCIE \$75/95
ATI/SAP X600PRO 256M PCIE \$83
Gigabyte FX 6600GT 128M PCIE \$105
Logitech X-530 5.1 Sub-W SPK \$1048/\$1168

LAPTOP

ACER AS3502NL CI Celeron-M 1.4 256MB, 40GB, 15" TFT, DVD/CDRW, 802.11G \$729
ACER AS3002WL CI-XPH Samson 2800+ 40GB 256MB, 15.4" WXGA, Combo, 802.11b/g XP Home \$828
ACER AS1690LCI-XPH Centrino 1.5GHz 256MB, 40GB, 15" TFT, DVD/CDRW, 802.11G, 56K, XP HOME \$1069
ACER AS5002WLMI-XPH Turion ML-30 1.6G 80GB 512MB, 15.4" WXGA TFT, DVD+/-RW, 802.11b/g XP Home \$1099

Prices subject to change without notice. Cash price, already 4% Discounted

LOGIC COMPUTER HOUSE.com

... Back to school specials ...

(Check our website for updated prices)

ALL LIST PRICES ARE ALREADY CASH DISCOUNTED, ANY OTHER FORM OF PAYMENT WILL BE AT REG. PRICE



L1950s 19"



\$388



LS50-UE5U1



\$1480



MF-FD150 Mp3 Player



\$77

ASUS

P5LD2-DX Mainboard



\$210

ASUS

A6Ne



\$1449

ASUS

Extreme AX600XT/HTDV



\$253

Antec

Sonata II w/450W



\$138

Canon

PIXMA iP2000



\$57

LEXMARK

P3150 All-In-1 Printer



\$65

Leadtek

Px7800 GTX Video Card



\$770

PHILIPS

170S6FB LCD



\$270

SAMSUNG

710N II LCD



\$330

EG301P-VB-FM



\$40

EG565P-VE



\$106

MARVIN

Bluetooth Cellular



\$55

Logitech

X530 5.1 Speakers



\$60

Mini Mp3 Player



\$70

conexant

USB 2.0 Pen Drive 128M



\$20

Surveillance Camera



\$99

SPY Camera



\$99

Digital Surveillance

Capture Card



\$213

* Some products not exactly as illustrated & While Quantities Last - We reserve the right to limit quantities - Logic Computer House disclaims any proprietary interest in trademarks or trade names except its own

Price and availability are subject to change without notice All items are already cash discounted. Any other form of payment will be at Regular Price. See website for Refund and Exchange Policy.

** Store Hours: **

Mon-Fri. 10:00a.m - 9:00p.m. Gov't & Corporate
Sat. 10:00a.m - 6:00p.m. P.O's Accepted
Sun. Noon - 5:00p.m. Resellers are Welcome

WAREHOUSE OUTLET

7310 Woodbine Avenue
(Woodbine & Denison)
TEL: (905) 415-0909
FAX: (905) 415-0911

Value Barebone Series

• MB: Giga Byte GA-8S661FXM-TR SIS661FX chipset

• RAM: Kingston 256MB DDR 400MHz

• FD: 3.5" 40GB 44pin FD

• HD: Master 80GB 2.5" IDE 7200 rpm 2M

• Video: Giga Byte 3300SE 128MB DVI/TV out

• Sound: Onboard Sound

• Lan: Onboard 10/100 RJ45 LAN

• Case: Mid-Tower with 350 ATX P/S

(Optional: Operating System, KB, Mouse & Monitor)



P4-3.0E GHz

Celeron D320 \$359

\$379

Celeron D330 \$509

P4-3.0E GHz

Our 17th Year

550 Alden Rd., Unit #110
Markham, Ontario L3R 6A8
Telephone: (905) 470-1425
www.greyttech.com

GREY TECH
COMPUTER INC.
HARDWARE • SOFTWARE • ACCESSORIES

Directions & Hours

5 Lights North of Steeles Avenue
1 Block West of Warden Avenue
Hours: Monday - Friday: 9am - 6pm
Saturday & Sundays: Closed

Video Editing Package

\$1859



Intel Pentium 4 LGA 3.0GHz 1mb cache, Asus motherboard P5GDC Deluxe, 1GB DDR 533 MHz memory, Seagate 160GB 7,200 rpm SATA2 drive, ATI All in Wonder 9600 PRO PCI-E 256MB 128bit, VESA 17" 1280 x 800 LCD screen, 16x Dual Layer DVD writer, Antec Sonata Super Quiet Case, Logitech Keyboard and Optical mouse, Altec Lansing 2.1 speakers, Windows XP Pro, Onboard 8 Channel Digital sound, Firewire, 1000 LAN, USB2, SATA, Twin RAID controllers
As listed (#057443) \$1859.00

LASER PRINTERS

Samsung's ML-1610 Laser

• Low cost, affordable printing
• 600x600 dpi resolution
• Prints 17 pages per minute
• USB interface

\$132.95

BACK TO
SCHOOL



Prints legal size!

SAMSUNG

ML1740 (17ppm/600dpi) 243⁹⁵
ML2251n (lan/22ppm/600dpi) 303⁹⁵
CLP510 (color/20.5ppm/1200dpi) 448⁹⁵
HEWLETT PACKARD

1020 (15ppm/600dpi) 182⁹⁵
1022N (lan/15ppm/1200 dpi) 356⁹⁵
1320 (22ppm/1200 dpi) 463⁹⁵
2550L (color/20.4ppm/600dpi) 444⁹⁵
HEWLETT PACKARD Multifunction
3015MFP (print, scan, copy, & fax) 359⁹⁵

POCKET PC'S

HP Extreme Pocket PC

The HX4700 offers a remarkable 640x480 colour VGA display combined with a super fast 624MHz processor.

Complete kit - Pocket PC with 128mb memory, docking cradle, installation CD, and charger. Features both SD and CF slots.

\$649.95

GPS Kit with talking turn by turn directions also available!



HEWLETT PACKARD

Ipaq 1710 (203MHz, 256mb) 281⁹⁵
Ipaq 2750 (634MHz, 128mb, Blue/WiFi) 506⁹⁵
Ipaq 3115 (300MHz, 256mb, Blue/WiFi) 393⁹⁵
Ipaq 4350 (400MHz, 64mb, Blue/WiFi) 585⁹⁵
Ipaq 4700 (624MHz, 192mb, Blue/WiFi) 646⁹⁵
Ipaq 4700 GPS Kit (Ipaq 4700, VGA, Bluetooth GPS receiver, charger, and Canadian & US maps) 1000⁹⁵

Ipaq 6320 (75mb, Phone/Blue/WiFi) 669⁹⁵
Ipaq GPS Bluetooth mapping add-on 361⁹⁵
Ipaq KeyBoard (Bluetooth) 127⁹⁵

ASUS

A730 (533MHz/54mb/640x480 colour Blue) 579⁹⁵
A730W (533MHz/54mb/640x480 Blue/WiFi) 692⁹⁵

PALM COMPUTING

Zire 21 (120MHz, 8mb, Black & White) 124⁹⁵
Zire 31 (200MHz, 16mb, Colour) 168⁹⁵
Zire 72 (312MHz, 24mb, Colour) 299⁹⁵

Zire 72 GPS Kit (Zire 72, 64mb memory card, GPS receiver, car windshield holder, charger) 487⁹⁵

Tungsten E2 (200MHz, 32mb) 247⁹⁵

Tungsten 5 (410MHz, 16mb, Colour) 396⁹⁵

BACK TO SCHOOL BUNDLE

Get everything you want at a great price!
Intel Pentium 4 powered system with LCD monitor AND a DVD writer!

- Intel Pentium 4 2.4GHz processor
- Gigabyte mainboard with SATA support
- 512mb of 333MHz memory (expand to 2GB)
- 40GB Seagate drive, 7,200 rpm, 2mb cache
- 15 inch Acer LCD flat panel 1024x768 display
- Deluxe mid tower case with up front USB ports
- CSA certified power supply with 450 watts
- Windows keyboard, scrolling mouse, speakers
- LG 16x Dual Layer DVD burner with software
- Microsoft Windows XP Home edition
- Two Year Parts & Labour warranty

Online shopping part #GT-SYSQ58419



Complete Package as listed...

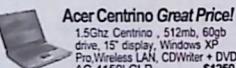
\$799

BACK TO
SCHOOL

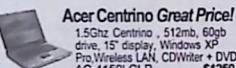
acer Notebooks



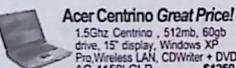
Acer AC-2312LCI-XPH!
1.5GHz Centrino, 512mb, 60gb drive, 15" display, Windows XP, Pro, Wireless LAN, CDWriter & DVD AC-1450LCI-P \$1250.95



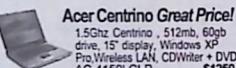
Acer Sempron Notebook
AMD 1.6GHz Sempron, 256mb, 40gb drive, 15.4" wide display, Windows XP Home, Wireless LAN, CDWriter & DVD AC-AS3002WLCH-H \$662.00



Acer Centrino Notebook
Intel 2.0GHz Centrino, 512mb, 80gb drive, 15" display, Windows XP Pro, Wireless LAN, DVD Writer AC-4654LM-P \$1839.95



Acer Centrino Notebook
Intel 1.8GHz Centrino, 1GB, 100gb drive, 15.4" wide display, Windows XP Home, Wireless LAN, DVD Writer AC-AS1684WLM-H \$1678.95



FLASH MEMORY

COMPACT FLASH (CF)

Kingston 128mb 25⁹⁵ Lexar 40x512mb 83⁹⁵

Kingston 256mb 33⁹⁵ Lexar 40x1gb 130⁹⁵

Kingston 512mb 54⁹⁵ Lexar 80x512mb 93⁹⁵

Kingston 1gb 85⁹⁵ Lexar 80x1gb 140⁹⁵

Kingston 2gb hs 151⁹⁵ Lexar 80x2gb 275⁹⁵

Kingston 4gb 301⁹⁵ Lexar 160x2gb 549⁹⁵

Kingston 8gb 599⁹⁵ Lexar 160x4gb 1099⁹⁵

Kingston 16gb 1199⁹⁵ Lexar 160x8gb 2199⁹⁵

Kingston 32gb 2399⁹⁵ Lexar 160x16gb 4399⁹⁵

Kingston 64gb 4799⁹⁵ Lexar 160x32gb 8799⁹⁵

Kingston 128gb 9599⁹⁵ Lexar 160x64gb 17599⁹⁵

Kingston 256gb 19199⁹⁵ Lexar 160x128gb 35199⁹⁵

Kingston 512gb 38399⁹⁵ Lexar 160x256gb 70399⁹⁵

Kingston 1tb 76799⁹⁵ Lexar 160x512gb 140799⁹⁵

Kingston 2tb 153599⁹⁵ Lexar 160x1tb 281599⁹⁵

Kingston 4tb 307199⁹⁵ Lexar 160x2tb 562399⁹⁵

Kingston 8tb 614399⁹⁵ Lexar 160x4tb 1124799⁹⁵

Kingston 16tb 1228799⁹⁵ Lexar 160x8tb 2257599⁹⁵

Kingston 32tb 2457599⁹⁵ Lexar 160x16tb 4515199⁹⁵

Kingston 64tb 4915199⁹⁵ Lexar 160x32tb 9030399⁹⁵

Kingston 128tb 9830399⁹⁵ Lexar 160x64tb 18060799⁹⁵

Kingston 256tb 19660799⁹⁵ Lexar 160x128tb 36121599⁹⁵

Kingston 512tb 39321599⁹⁵ Lexar 160x256tb 72243199⁹⁵

Kingston 1tb 78643199⁹⁵ Lexar 160x512tb 154486199⁹⁵

Kingston 2tb 157286199⁹⁵ Lexar 160x1tb 308972399⁹⁵

Kingston 4tb 314572399⁹⁵ Lexar 160x2tb 617944799⁹⁵

Kingston 8tb 629144799⁹⁵ Lexar 160x4tb 125428959⁹⁵

Kingston 16tb 125828959⁹⁵ Lexar 160x8tb 251657919⁹⁵

Kingston 32tb 251657919⁹⁵ Lexar 160x16tb 503315839⁹⁵

Kingston 64tb 503315839⁹⁵ Lexar 160x32tb 1006631679⁹⁵

Kingston 128tb 1006631679⁹⁵ Lexar 160x64tb 2013263359⁹⁵

Kingston 256tb 2013263359⁹⁵ Lexar 160x128tb 4026526719⁹⁵

Kingston 512tb 4026526719⁹⁵ Lexar 160x256tb 8053053439⁹⁵

Kingston 1tb 8053053439⁹⁵ Lexar 160x512tb 1610610689⁹⁵

Kingston 2tb 1610610689⁹⁵ Lexar 160x1tb 3221221379⁹⁵

Kingston 4tb 3221221379⁹⁵ Lexar 160x2tb 6442442759⁹⁵

Kingston 8tb 6442442759⁹⁵ Lexar 160x4tb 1288488559⁹⁵

Kingston 16tb 1288488559⁹⁵ Lexar 160x8tb 2576977119⁹⁵

Kingston 32tb 2576977119⁹⁵ Lexar 160x16tb 5153954239⁹⁵

Kingston 64tb 5153954239⁹⁵ Lexar 160x32tb 10307908479⁹⁵

Kingston 128tb 10307908479⁹⁵ Lexar 160x64tb 20615816959⁹⁵

Kingston 256tb 20615816959⁹⁵ Lexar 160x128tb 41231633919⁹⁵

Kingston 512tb 41231633919⁹⁵ Lexar 160x256tb 82463267839⁹⁵

Kingston 1tb 82463267839⁹⁵ Lexar 160x512tb 16492653569⁹⁵

Kingston 2tb 16492653569⁹⁵ Lexar 160x1tb 32985307139⁹⁵

Kingston 4tb 32985307139⁹⁵ Lexar 160x2tb 65970614279⁹⁵

Kingston 8tb 65970614279⁹⁵ Lexar 160x4tb 13194122859⁹⁵

Kingston 16tb 13194122859⁹⁵ Lexar 160x8tb 26388245719⁹⁵

Kingston 32tb 26388245719⁹⁵ Lexar 160x16tb 52776491439⁹⁵

Kingston 64tb 52776491439⁹⁵ Lexar 160x32tb 105552982879⁹⁵

Kingston 128tb 105552982879⁹⁵ Lexar 160x64tb 211105965759⁹⁵

Kingston 256tb 211105965759⁹⁵ Lexar 160x128tb 422211931519⁹⁵

Kingston 512tb 422211931519⁹⁵ Lexar 160x256tb 844423863039⁹⁵

Kingston 1tb 844423863039⁹⁵ Lexar 160x512tb 168884772079⁹⁵

Kingston 2tb 168884772079⁹⁵ Lexar 160x1tb 337769544159⁹⁵

Kingston 4tb 337769544159⁹⁵ Lexar 160x2tb 675539088319⁹⁵

Kingston 8tb 675539088319⁹⁵ Lexar 160x4tb 135107817679⁹⁵

Kingston 16tb 135107817679⁹⁵ Lexar 160x8tb 270215635359⁹⁵

Kingston 32tb 270215635359⁹⁵ Lexar 160x16tb 540431270719⁹⁵

Kingston 64tb 540431270719⁹⁵ Lexar 160x32tb 1080862541439⁹⁵

Kingston 128tb 1080862541439⁹⁵ Lexar 160x64tb 2161725082879⁹⁵

Kingston 256tb 2161725082879⁹⁵ Lexar 160x128tb 4323450165759⁹⁵

Kingston 512tb 4323450165759⁹⁵ Lexar 160x256tb 8646900331519⁹⁵

Kingston 1tb 8646900331519⁹⁵ Lexar 160x512tb 1729380066319⁹⁵

Kingston 2tb 1729380066319⁹⁵ Lexar 160x1tb 3458760132639⁹⁵

Kingston 4tb 3458760132639⁹⁵ Lexar 160x2tb 6917520265279⁹⁵

Kingston 8tb 6917520265279⁹⁵ Lexar 160x4tb 1383504051559⁹⁵

Kingston 16tb 1383504051559⁹⁵ Lexar 160x8tb 2767008103119⁹⁵

Kingston 32tb 2767008103119⁹⁵ Lexar 160x16tb 5534016206239⁹⁵

Kingston 64tb 5534016206239⁹⁵ Lexar 160x32tb 1106803241249⁹⁵

Kingston 128tb 1106803241249⁹⁵ Lexar 160x64tb 2213606482499⁹⁵

Kingston 256tb 2213606482499⁹⁵ Lexar 160x128tb 442721296499⁹⁵

Kingston 512tb 442721296499⁹⁵ Lexar 160x256tb 885442592998⁹⁵

Kingston 1tb 885442592998⁹⁵ Lexar 160x512tb 177088518996⁹⁵

Kingston 2tb 177088518996⁹⁵ Lexar 160x1tb 354177037992⁹⁵

Kingston 4tb 354177037992⁹⁵ Lexar 160x2tb 708354075984⁹⁵

Kingston 8tb 708354075984⁹⁵ Lexar 160x4tb 1416708151968⁹⁵

Kingston 16tb 1416708151968⁹⁵ Lexar 160x8tb 2833416303936⁹⁵

Kingston 32tb 2833416303936⁹⁵ Lexar 160x16tb 5666832607872⁹⁵

Kingston 64tb 5666832607872⁹⁵ Lexar 160x32tb 11333665215744⁹⁵

Kingston 128tb 11333665215744⁹⁵ Lexar 160x64tb 22667330431488⁹⁵

Kingston 256tb 22667330431488⁹⁵ Lexar 160x128tb 45334660862976⁹⁵

Kingston 512tb 45334660862976⁹⁵ Lexar 160x256tb 90669321725952⁹⁵

Kingston 1tb 90669321725952⁹⁵ Lexar 160x512tb 181338643451904⁹⁵

Kingston 2tb 181338643451904⁹⁵ Lexar 160x1tb 362677286903808⁹⁵

Kingston 4tb 362677286903808⁹⁵ Lexar 160x2tb 725354573807616⁹⁵

Kingston 8tb 725354573807616⁹⁵ Lexar 160x4tb 145070914761523⁹⁵

Kingston 16tb 145070914761523⁹⁵ Lexar 160x8tb 290141829523046⁹⁵

Kingston 32tb 290141829523046⁹⁵ Lexar 160x16tb 580283659046092⁹⁵

Kingston 64tb 580283659046092⁹⁵ Lexar 160x32tb 1160567318092184⁹⁵

Kingston 128tb 1160567318092184⁹⁵ Lexar 160x64tb 2321134636184368⁹⁵

Kingston 256tb 2321134636184368⁹⁵ Lexar 160x128tb 4642269272368736⁹⁵

Kingston 512tb 4642269272368736⁹⁵ Lexar 160x256tb 9284538544737472⁹⁵

Kingston 1tb 9284538544737472⁹⁵ Lexar 160x512tb 1856887708947444⁹⁵

Our 17th Year

550 Alden Rd., Unit #110
Markham, Ontario L3R 6A8
Telephone: (905) 470-1425
Fax: (905) 470-9556

GREY TECH

COMPUTER INC.

HARDWARE • SOFTWARE • ACCESSORIES

Directions & Hours

5 Lights North of Steeles Avenue
1 Block West of Warden Avenue
Hours: Monday - Friday: 9am - 6pm
Saturday & Sundays: Closed

PROCESSORS

INTEL PENTIUM 4 PGA Retail
2.40GHz (533MHz, 1mb cache) 176 ⁹⁵
INTEL PENTIUM 4 LGA Retail
3.00GHz (800MHz, 1mb, P4-530) .. 255 ⁹⁵
3.00GHz (64-bit, 2mb, P4-630) ... 311 ⁹⁵
3.20GHz (800MHz, 1mb, P4-540) ... 307 ⁹⁵
3.20GHz (64-bit, 2mb, P4-640) ... 369 ⁹⁵
3.40GHz (800MHz, 1mb, P4-550) ... 372 ⁹⁵
3.60GHz (800MHz, 1mb, P4-560) ... 552 ⁹⁵
INTEL PENTIUM 4 Dual Core Retail
2.80GHz (800MHz, 2mb, P4-820) ... 333 ⁹⁵
3.00GHz (800MHz, 2mb, P4-830) ... 430 ⁹⁵
AMD ATHLON 64 Retail
3000+ Socket 939 (Venice 333MHz) 198 ⁹⁵
3500+ Socket 939 (Venice 333MHz) 336 ⁹⁵
3800+ Socket 939 (Venice 333MHz) 469 ⁹⁵
AMD ATHLON 64 Dual Core Retail
4200+ X2 (512kb + 512kb) 663 ⁹⁵
4400+ X2 (1mb + 1mb) 719 ⁹⁵

MOTHERBOARDS

FOR INTEL PROCESSORS

Asus P4S800-MX w/video PGA 65 ⁹⁵
GB, GA-8S661FXMP w/video PGA ... 69 ⁹⁵
Asus P5S800-VW w/video LGA ... 87 ⁹⁵
Asus P5P800 LGA 128 ⁹⁵
Asus P5GDI-1 VM w/video LGA .. 136 ⁹⁵
Asus P5GD1 LGA 140 ⁹⁵
Asus P5LD2-M w/video LGA 142 ⁹⁵
Asus P5LD2 LGA 177 ⁹⁵
Asus P5GDC-DX LGA 915 191 ⁹⁵
Asus P5AD2-E-DX LGA 925 230 ⁹⁵
Asus P5AD2-E-PREM LGA 279 ⁹⁵
Asus P5WD2-PRE LGA 275 ⁹⁵
Asus P5ND2-SLI-DX LGA NF4 283 ⁹⁵
FOR AMD PROCESSORS
Asus K8V-X (Athlon 64 754) 89 ⁹⁵
Asus A8V (Athlon 64 939 KT8) ... 125 ⁹⁵
Asus A8N-E (Athlon 64 939 NF4) ... 147 ⁹⁵
Asus A8N-SLI (Athlon 64 939 NF4) 184 ⁹⁵

HARD DRIVES

SEAGATE EIDE (PATA)
40GB (ST340014A) 2mb/s years 70 ⁹⁵
80GB (ST380011A) 2mb/s years 75 ⁹⁵
120GB (ST3120022A) 2mb/s years ... 93 ⁹⁵
120GB (ST3120026A) 8mb/s years ... 105 ⁹⁵
160GB (ST3160023A) 8mb/s years ... 114 ⁹⁵
200GB (ST3200022A) 8mb/s years ... 146 ⁹⁵
250GB (ST3250023A) 8mb/s years ... 167 ⁹⁵
SEAGATE SERIAL (SATA) 2TA
80GB (ST380817A) 8mb/s SA 2TA 85 ⁹⁵
120GB (ST320827A) 8mb/s SA 2TA 113 ⁹⁵
160GB (ST316027A) 8mb/s SA 2TA 121 ⁹⁵
200GB (ST320026A) 8mb/s SA 2TA 156 ⁹⁵
250GB (ST3250023A) 8mb/s SA 2TA 204 ⁹⁵
300GB (ST3300031A) 8mb/s SA 2TA 225 ⁹⁵
400GB (ST3400032A) 8mb/s 380 ⁹⁵

CASES

GREY-TECH
GT-488U (450 watts, USB, Black) 44 ⁹⁵
RMC48u Rackmount 179 ⁹⁵
ANTEC
SONATA II (450 watts, USB) 144 ⁹⁵
SLK1650/B (350 watts, USB) ... 79 ⁹⁵ /79 ⁹⁵
SLK2650BQE (350 watts, USB) ... 99 ⁹⁵
P180 Extreme Case (11 bays, 3 x 12cm fans, ducted video cooling, no power) ... 171 ⁹⁵
See ALL our cases at www.greytech.com

Shop online at
www.greytech.com

OPTICAL DRIVES

CD-ROMS
Liteon 52x 19 ⁹⁵
DVD-ROMS
LG/Liteon DVD 16X 33 ⁹⁵ /33 ⁹⁵
CDWRITERS
LG (ECS-827B) 52x32x52 36 ⁹⁵
COMBINATION DRIVES
LG (4521) 52xCDRW, 16X DVDR 50 ⁹⁵
DVD WRITERS
Pioneer (DVR-109) 16x/+16x/-6x DL 67 ⁹⁵
Pioneer (DVR-109EXT External Kit) 159 ⁹⁵
Plextor (PX-740A) 16x/+8x-Slot DL 135 ⁹⁵
Plextor (PX-716AL) 16x/+8x-Slot DL ... 71 ⁹⁵
LG (4163BB) 16x/+16x-DL 71 ⁹⁵
Liteon (1673S) 16x+16x-DL 65 ⁹⁵
Asus (1608P) 16x/+16x-DL 78 ⁹⁵
NEC (3520A) 16x/+16x-DL 78 ⁹⁵

DVD DUPLICATORS

Push a button and make up to nine copies of a DVD or CD. Simple to use. Self Contained. Easy to read LCD Display. Designed for continuous operation.

5 Target unit (#GT-DVD57097) 799⁹⁵

7 Target unit (#GT-DVDQ56516) 939⁹⁵

9 Target unit (#GT-DVDQ56517) 1219⁹⁵

VIDEO CARDS

ASUS
R9250-TD 128 ^{MB} DVI, AGP 55 ⁹⁵
R9550GE-TD 128 ^{MB} DVI, AGP 88 ⁹⁵
X300SE 128 ^{MB} TVOut, PCIE 84 ⁹⁵
X600XTHD 128 ^{MB} TVOut, PCIE 260 ⁹⁵
X700PRO 256 ^{MB} TVOut, PCIE 244 ⁹⁵
EN6600GT 128 ^{MB} PCIE 236 ⁹⁵
EN6800GT 256 ^{MB} PCIE 514 ⁹⁵
X800XL-2D 256 ^{MB} 2xDVI, PCIE 356 ⁹⁵
X800XT-2DT 256 ^{MB} , AGP 596 ⁹⁵
X850XT-2HD 256 ^{MB} , DVI, PCIE 622 ⁹⁵
ATI TECHNOLOGIES
ATI X10000L 256 ^{MB} , DVI, PCIE 404 ⁹⁵
ATI X6000 Pro 256 ^{MB} DVI, PCIE 259 ⁹⁵
ATI X800XT 256 ^{MB} DVI, AGP 492 ⁹⁵
SAPPHIRE
X300SE 128 ^{MB} , DVI, PCIE 69 ⁹⁵
X600PRO 128 ^{MB} /256 ^{MB} , DVI, PCIE 109/119 ⁹⁵
9600XT 256 ^{MB} DVI, AGP 122 ⁹⁵
X800XL 256 ^{MB} , DVI, PCIE 388 ⁹⁵
X850XT 256 ^{MB} , DVI, PCIE 494 ⁹⁵
GIGABYTE
NX66T128D 128 ^{MB} , DVI, PCIE 218 ⁹⁵

TV TUNER/CAPTURE

HAUPPAUGE

701 TWIN VETO EXTERNAL TUNER USB ... 97⁹⁵

9900 WINTV PRO 350 REMOTE MPEG2 ... 228⁹⁵

ATI

TV-Wonder Pro TUNER PCI 97⁹⁵

PLEXTOR

PX-TV100U CONVERTX USB2 MPEG2 138⁹⁵

ASUS

TV FM Card w/REMOTE CONTROL ... 60⁹⁵

POWER SUPPLIES

ENERMAX

Dual Fan 350 watts 59⁹⁵

NoiseTaker EG425P 420 watts 83⁹⁵

NoiseTaker EG495 485 watts 95⁹⁵

NoiseTaker EG-All-In-One 600 watts ... 178⁹⁵

GREY-TECH 500 watts, CSA 24⁹⁵

OCZ Modstream 450 watts 24 pin 104⁹⁵

ANTEC TrueControl 550 watts 140⁹⁵

LCD MONITORS

The World's Fastest LCD Display

ViewSonic VX724

• 17 inch 1280x1024

• 350:1 contrast ratio

• 4ms response time

• 270° wide angles

• Analog and Digital

\$409⁹⁵

(Available August 10th, 2005)

VIEWSONIC

17" VE710B 25ms 450:1 326⁹⁵

17" VX724 4ms (available early Aug) 409⁹⁵

17" VP1712B-2 8ms 500:1 DVI 424⁹⁵

19" VG900B 25ms 600:1 424⁹⁵

19" VX924 4ms 550:1 DVI 529⁹⁵

19" VP1918B 8ms 700:1, DVI, rotatable, full spectrum for photographic work 574⁹⁵

20" VP2018B 16ms 400:1 788⁹⁵

21" VP2118B 25ms 600:1 1072⁹⁵

23" VP231WB wide 16ms 500:1 1871⁹⁵

SAMSUNG

17" T13 25ms 500:1 370⁹⁵

17" T17Z 12ms 500:1 DVI 595⁹⁵

19" 9190 25ms 800:1 562⁹⁵

19" 9193VII 12ms 800:1 445⁹⁵

ACER

17" AL1715W 12ms 450:1 285⁹⁵

19" AL1913B 23ms 600:1 358⁹⁵

BENQ

17" FP71G+ 8ms 600:1 356⁹⁵

17" FP71V+ 10ms 500:1 441⁹⁵

19" FP91G+ 8ms 550:1 485⁹⁵

DVD / CD MEDIA

DVD / CD MEDIA

Save on DVD and CD media when you purchase in quantity

ProDisc DVD Media

DVD-R 8x 50 pack 21⁹⁵, 200 pack 77⁹⁵

DVD-R 8x white inkjet printable surface 50 pack 23⁹⁵, 200 pack 79⁹⁵

DVD-R 16x 50 pack 31⁹⁵, 200 pack 116⁹⁵

DVD-R 4x white inkjet printable surface 50 pack 23⁹⁵, 200 pack 85⁹⁵

DVD-R 8x 50 pack 24⁹⁵, 200 pack 89⁹⁵

DVD-R 8x white inkjet printable surface 50 pack 24⁹⁵, 200 pack 89⁹⁵

Ritek CD-R Media

Ritek 700mb 100 pack 20⁹⁵, 200 pack 36⁹⁵

Ritek 700mb white inkjet printable surface 100 pack 26⁹⁵, 400 pack 95⁹⁵

Professional CD/DVD Labels

Regular White Face 100 pack 18⁹⁵

Glossy Photo White Face 50 pack 17⁹⁵

DVD/JEWEL CASES

Jewel Case Single Acrylic 29⁹⁵

Pack of 50 11⁹⁵, 100 22⁹⁵, 200 40⁹⁵

Jewel Case Double Acrylic 39⁹⁵

Pack of 50 16⁹⁵, 100 26⁹⁵, 200 48⁹⁵

Jewel Case Single Acrylic (Slims) 21⁹⁵

Pack of 50 16⁹⁵, 100 26⁹⁵, 200 48⁹⁵

DVD Case Single Vinyl 59⁹⁵

Pack of 50 17⁹⁵, 100 32⁹⁵, 200 58⁹⁵

SPECIAL DVD Case DOUBLE Vinyl

Pack of 50 12⁹⁵, 100 22⁹⁵, 200 42⁹⁵

DVD Case Single Vinyl (Slime) 59⁹⁵

Pack of 50 17⁹⁵, 100 32⁹⁵, 200 58⁹⁵

LCD TELEVISIONS

ViewSonic N3000W

30" High Definition Television

second to none in quality and price.

30" Wide-screen, high-definition television

Gaming compatible 16ms computer mode

Intense colour, high contrast

True 1020x768 resolution

Built in stereo speakers

Built in tuner

\$1550

VIEWSONIC N1750W 17" TV with HD 1080p resolution 631⁹⁵

VIEWSONIC N3000W 30" TV with HD 1080p resolution 1550⁹⁵

VIEWSONIC N3200W 32" TV with HD 1080p resolution 1729⁹⁵

VIEWSONIC N4000WP 40" TV with HD 1080p resolution 4435⁹⁵

NETWORKING

Dlink

Share your high speed internet connection!

\$4795

Dlink's DI-604 Router with 4 port switch

WIRELESS NETWORKING

Dlink Wireless Router DI-524 (g) 68⁹⁵

Dlink Wireless Router DI-624 (g) 92⁹⁵

Dlink Wireless PCI Card DGL-510 (g) 56⁹⁵

Dlink Wireless PCI Card DGL-620 (g) 68⁹⁵

Dlink Wireless PC Card DGL-630 (g) 59⁹⁵

Dlink Wireless Access Point DGL-2100AP (g) 127⁹⁵

Dlink Wireless PCI Card DGL-520+(4b) 54⁹⁵

Dlink Wireless USB Port DWL-122 (b) 45⁹⁵

Asus Wireless PCI Card with ext. (g) 48⁹⁵

Linksys Wireless Router BEFW1154 (g) 69⁹⁵

Linksys Wireless Router WRP54G (g) 131⁹⁵

ROUTERS

Dlink Router 4-port DI-604 47⁹⁵

Dlink Router 4-port w/LP DI-704P 78⁹⁵

Dlink Router 4-port Portable DWL-730p 88⁹⁵

Linksys Router 4-port NR041 50⁹⁵

ADAPTERS

Dlink 10/100 NIC DFE-538-TX (PCI) 12⁹⁵

Dlink 10/100 NIC DGE-530T (PCI) 34⁹⁵

PCMCIA/CARDBUS

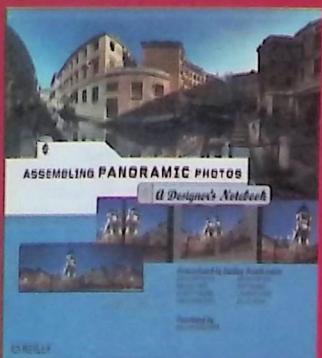
Dlink 10/100 NIC DFE-690TXD (Cardbus) 45<

Assembling Panoramic Photos: A Designer's Notebook

By various French authors, translated by William Redermer

Published by O'Reilly ISBN 0-596-00875-5

Paperback, 86 pages Price: \$27.95



in the same format, being anthologies of several artists' work. This approach allows the best work of each to be presented, which generally results in the series having excellent content overall. They are also attractively priced. Highly recommended.

Digital photography makes it feasible to construct a panorama by seamlessly stitching several photos together. There are a number of variables involved, however. This book gives eight French photographers the chance to tell us how they do it. The presentations are quite detailed, cover a variety of approaches and are very well illustrated. O'Reilly presently has four titles in the *A Designer's Notebook* series. They follow the same format, being anthologies of several artists' work. This approach allows the best work of each to be presented, which generally results in the series having excellent content overall. They are also attractively priced. Highly recommended.

Photoshop Elements 3 and Corel (Jasc) Paint Shop Pro. When you copy an image and paste it onto itself, the pasted image resides on a new layer. The blend mode of this layer is, by default, set to Normal and the opacity is set to 100 percent. The image looks the same because the pasted layer has the identical characteristics of the base image. But set the blend mode to Multiply and things happen. Multiply mode is conceptually like taking an identical image that's on clear film and laying it on the existing image. This increases the density of the photo, making the whole image look darker and revealing detail that was not apparent before. If one layer isn't enough, you can add more. If the effect of a Multiply layer is too great, you can reduce it by setting the opacity slider to a lower percentage.

The Clone tool is a very useful general-purpose retouching tool that is good for filling scratches, voids and tears, because you can sample a nearby area to closely match the colours and tones, making the repair invisible. It works like a brush. You select the source area, which the clone tool uses as a pattern for the brush strokes, then paint the area to be fixed. You can vary the width of the brush, adjust the edge effect [hard to feathered], the opacity of the stroke [0 to 100 per cent] and also the blend mode. For example, in fixing a scratch, which shows as a white line, try setting the blend mode to Darken.

More recent versions of Photoshop and also Photoshop Elements 3 include a Healing brush, which is very good at removing blemishes or repairing damage in areas of continuous tone. Setting up the parameters of the healing brush is similar to the clone tool. There is a variation called Spot Healing that doesn't use a source area target to calculate the repair values. Rather, it calculates the proper values using the area immediately surrounding the spot to be repaired. As the name implies this tool works best with small areas – spots – that need repair.

Another overall technique that works for large areas that have even tones or regular texture is to cut a portion from a good area and past it over a damaged area. You can move the patch to match an underlying pattern and use other tools like dodge and burn to match slight tonal variations.

There are a number of other tools, particularly in Photoshop CS, that you can use for photo restoration. However, with the above you should be able to accomplish a lot. One overall thought to keep in mind is that restoration is time-consuming, and progress can be extremely slow, especially when it comes to reconstructing areas with lots of critical detail such as facial features. This is very much a situation where patience has its rewards.

By David Tanaka

Questions and comments about David Tanaka's monthly column can be sent to digitalimaging@ppublishing.ca.

SYSNOV Company Inc.

please visit us on line at
WWW.SYSNOV.COM
(905) 602-9088 or 1-866-4SYSNOV



OFFICE & HOME

Repair, maintenance
and Networking
CCTV Security Systems

SMALL BUSINESS

VoIP PBX Systems
Network file
& Print systems
Web Hosting
& E-Commerce Solutions

ENTERTAINMENT

Free to Air Satellite
TV Systems
TV/FM PC recording systems
(PVR)
Bluetooth GPS Systems
PC Gaming Systems

PC UPGRADE SPECIAL

\$399.00

MBoard.....ASUS P4S800
CPU.....P4 3.0GHz 800FSB
RAM.....512MB DDR

Install or Upgrade your Business Phone System
with our VoIP Business Solutions

Extension @ Anywhere

- Multiple extensions can be accessed anywhere
- Save \$\$\$ on phone services
- Easy to install and use
- Voicemail can be checked as email
- Works over any High Speed Internet connection

1550 South Gateway Rd. Unit 2B (111)
Mississauga, ON. L4W 5G6

We are open 7 days a week
Mon-Sat 10am to 8pm
Sun 10am to 6pm

CanadaSys

(Retail)

EverChannel

(Dealers)

Desktops

Sempron 2400 \$295
Sempron 2600 \$315

 ASRock K7VM3 Board
256M / 80G 7200r / Floppy
ATX Case / 52X CDROM
Modem / Sound / Lan
Keyboard / Mouse / Spk

Athlon64 3000 \$815
Athlon64 3200 \$865

Asus A8N-E MB (Wireless)

OCZ 512M Dual Channel

ATI X600Pro 256M (PCI-E)

160G SATA / 16x DVD-RW

High Quality Case / DVD

FD / KB / Optical Mouse

Altec Lansing Subwoofer

North York

 789 Lawrence West
Tel : (416) 781-7738
Open 7 Days Now

Business Hours

Monday --- Friday : 11am -- 7pm Saturday: 11am -- 6pm; Sunday: 11am -- 5pm

Lawrence

Dufferin

Markham

 #4, 7080 Warden
Tel: (905) 307-7738
Open 7 Days

404 Warden

Steels Ave

Scarborough

 2931 Lawrence East
Tel : (416) 269-7738
Sunday Closed

Lawrence

Brimley

Laptops

Intel P4-2.4G \$415
Intel P4-3.0G \$485

 ASRock P4VM8 Mainboard
256M / 80G 7200r / Floppy
ATX Case / 52X CD-Writer
Modem / Sound / Lan
Keyboard / Mouse / Spk

Intel P4-3.0G \$495

ASRock P4V88 Mainboard

256M / 80G 7200r / Floppy

ATI R7000 64M / Modem

ATX Case / 52X CD Writer

Keyboard / Mouse / Spk

Intel P4-3.0G \$775
Intel P4-3.2G \$829

Asus P5GD1 Mainboard

OCZ 512M Dual Channel

ATI X300SE 128M (PCI-E)

160G SATA HD / Floppy

High Quality Case / Modem

16X DVD Burner / 16x DVD

Keyboard / Optical Mouse

Altec Lansing Subwoofer

Asus Z71V
Centrino 1.7 (533) \$1545
Centrino 1.8 (533) \$1609
Centrino 2.0 (533) \$1779

15.4" WSXGA+ (1680x1050)

128M nVidia 6600 PCI-E

512M DDR2 / 60G 5400r 8M

DVD CDRW Combo Drive

Wireless-G / Gigabit Lan

Upgr to 1G / 2G DDR2

Dual Channel.....\$75 / 200

Upgr to 60G / 80G SATA

Hard Drive.....\$49 / 75

Upgr to 8x DVDRW dual.....\$170

Extra Main Battery.....\$149

2 more year warranty.....\$149

Asus Z91N
\$1145

Centrino 1.7 / 15" / DVD-CDRW

40G 5400r / 8M / 260G / 802.11G

Asus Z80K
\$1429

AMD A64 3400+ / 15" SXGA

DVD CDRW / 60G 5400r 8M

802.11G / ATI R9700 128M

Asus A6NE
\$1379

Centrino 1.6G / 512M / 60G

15.4" / 802.11G / XP Pro

8x DVDRW / 2-yr Warranty

Asus Z33A
\$1379

Centrino 1.7G / DVD-CDRW

40G 5400r / 12" / 802.11G

Asus Z63A
\$1389

Centrino 1.7G / 14" Wide

512M DDR2 / 60G 5400r 8M

Combo / 802.11G / Gigabit Lan

Asus Z70V
\$1589

Centrino 1.7G / 15.4" / Combo

512M DDR2 / 60G 5400r 8M

ATI X600 64M / 802.11G

Asus Z91N
\$1145

Centrino 1.7 / 15" / DVD-CDRW

40G 5400r / 8M / 260G / 802.11G

Asus Z80K
\$1429

AMD A64 3400+ / 15" SXGA

DVD CDRW / 60G 5400r 8M

802.11G / ATI R9700 128M

Asus A6NE
\$1379

Centrino 1.6G / 512M / 60G

15.4" / 802.11G / XP Pro

8x DVDRW / 2-yr Warranty

Acer AS3502NL
\$769

Celeron M 1.4G / 256M / 40G

15" / 802.11G / Combo

Acer AS1690LC
\$1099

Centrino 1.5G / 256M / 40G

15" / 802.11G / Combo / XPH

Acer AS1694WL
\$1899

Centrino 1.8G / 1024M / 100G

15.4" / 802.11G / DVD+/-RW

ATI X600 64M / XP Home

Acer AS1804WS
\$2099

P4-3.2G/1024M/100G/802.11G

17" / DVDRW / X600 128M / XPH

Acer AS3002WL
\$865

Sempron 2800+ / 256M / 40G

15.4" / 802.11G / Combo / XPH

Acer AS5002WL
\$1149

AMD Turion 64 3000/512M/80G

15.4" / 802.11G / DVDRW / XPH

Acer Ferrari 3400WL
\$2379

AMD A64 3400+ / 512M / 80G

15" / 802.11G / DVDRW / XP Pro

For more savings & options visit www.CanadaSys.com
Optical Drive


16xDVD.....\$27

52XCDRW.....\$29

DVD Re-Writers

LG 16X (4163B).....\$57

NEC 16X (3520).....\$64

Pioneer 16X (109).....\$71

Hard Drive

IDE / 7200rpm

80G / 2M.....\$67

80G / 160 (8M).....\$71 / 101

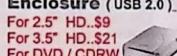
200 / 250G (8M).....\$122 / 148

300G (16M).....\$209

SATA / 7200rpm

80 / 160G.....\$73 / 108

200 / 250G.....\$130 / 157


Enclosure (USB 2.0)
For 2.5" HD.....\$9
For 3.5" HD.....\$21
For DVD / CDRW.....\$23
Network

Router.....\$21

Network Card

Wireless-G.....\$30

DDR Memory

256 M / 512M

DDR400 / 264 / 49

1024M DDR2 533

Dual Channel.....\$99

Prices already 4% cash discounted & subject to change without notice


Video Card

ATI Radeon AGP

9250 128M.....\$47

9200 256M.....\$65

9600 256M.....\$96

ATI PCI Express 256M (16x)

X600 / X700.....\$124 / 227

NVIDIA Geforce

Asus 6600GT 128E.....\$229

Asus 6800TD 256E.....\$374

Power Supply

Generic 400W.....\$13

ThermalTake

430W.....\$47

Prices already 4% cash discounted & subject to change without notice


Case

Std ATX

w/400w.....\$25

Viper Case

w/500w.....\$118

ThermalTake

VB1000.....\$85

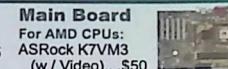
(No power Supply)

Antec P160

.....\$129

(No power Supply)

Aluminum


Main Board

For AMD CPUs:

ASRock K7VM3

(w / Video).....\$50

Asus A7V8X / A7N8X.....\$61 / 77

Asus K8N (Socket 754).....\$91

Asus A8N-E (939 / PCI-E).....\$143

Asus A8N-SLI (939 / PCI-E).....\$182

DFI LanParty nF4 Ultra-D.....\$170

For Intel CPUs:

ASRock P4VM8 (w / Video).....\$56

ASRock P4V88 (800FSB).....\$59

ASRock 775V88 (LGA775).....\$70

Asus P4S80 / MX(Video).....\$73 / 71

Asus P5GD1 / P5GD2.....\$130 / 167

Asus P5GD2-Deluxe.....\$210

Asus P5AD2-E Premium.....\$259

For more savings & options visit www.CanadaSys.com
Want more HUB?

Check out

www.hubcanada.com


DV, or Not DV

Automatic Editing for the People

Video is almost always edited before it is shared with anyone.

That's according to our very informal survey, in which readers were asked if they like to go "raw" by sharing, screening or selling unedited video (raw footage on a camera tape).

Many of you said there was a tonne of video footage in the closet, perhaps never to see the light of day, because it needs some editing. But we all know that sorting through hours of videotape can be a tedious and time-consuming process.

Searching out the good parts means watching all the bad parts, too – bad colours, poor exposures, shaky camerawork, and embarrassing moments all have to be edited out before the opus is really ready for prime time, according to most people who wrote in.

That attitude is not necessarily surprising, but it is a little contradictory. Industry sales figures show that video cameras far outsell editing solutions. The Consumer Electronics Association anticipates video camcorder sales of 4.35 million units this year (up from 3.9 million last year), but nowhere near as many editing systems.



So what to do?

Well, interesting solutions for editing video – without a video editing system – do exist.

YesVideo Canada (www.yesvideo.ca) offers one easy way of sorting through unsorted, unedited video. Not only does the company transfer analog or digital video to DVD, it uses its own patented software to automatically identify natural breaks in the footage, turning them into chapter stops on the DVD menu.

Camera start-and-stops can be easily detected, thanks to changes in the record signal that gets laid down on tape. The software also identifies changes in ambient lighting, such as when you move from indoors to outdoors while taping. Those changes are also flagged as chapters.

For about the cost of a store-bought DVD, you get your own disc with

only the
BEST STORES
listed on

PRICENETWORK.ca
Compare Prices, Share Deals and Win!

Before you shop for electronics, start with PriceNetwork.ca to compare prices, share deals and win prizes! PriceNetwork.ca is Canada's leading price comparison website with thousands of products and hundreds of stores listed.

Visit <http://www.pricenetwork.ca/hubcanada>

FREE SHIPPING
on any premier vendors
listed on Pricenetwork.ca

* Use Online. See site for details. Only for first 50. Up to \$25 only.
Visit <http://www.pricenetwork.ca/hubcanada>



ECS ELITEGROUP

KN1 SLI

EXTREME



Dual Core

KN1 SLI
EXTREME

- Socket 939, AMD Athlon 64/Athlon 64 FX CPU
- NVIDIA nFORCE™4 CK8-04 SLI Single Chip
- Dual-Channel DDR(DDR 400/333/266)
- 2 x PCI Express x16 and 1 x PCI Express x1
- Dual LAN (Giga LAN, 10/100 LAN), IEEE 1394A, Serial ATA, 8-Channel Audio



Visit our web site at www.ECSUSA.com

Model	RS 480-M	KN1 Extreme	NForce4-A939	NForce4-A754
Socket	Socket 939	Socket 939	Socket 939	Socket 754
Processor	AMD Athlon 64/Athlon 64 FX	AMD Athlon 64/Athlon 64 FX	AMD Athlon™ 64/Athlon™ 64 FX	AMD Athlon™ 64/Sempron™
Chipset	ATI® RS480+SB400	NVIDIA nFORCE™4 Ultra	NVIDIA nForce™4	NVIDIA nForce™4-4X
Memory	Dual-Channel DDR DDR400/333/266 DDR SDRAM	Dual-Channel DDR DDR400/333/266/200 DDR SDRAM	Dual-Channel DDR DDR400/333/266 DDR SDRAM	DDR400/333/266/200 DDR SDRAM
Graphics	On Chip Radeon X300 based	PCI Express x16	PCI Express x16	PCI Express x16
Communication	10/100 LAN	Dual LAN	Giga LAN	Giga LAN
Others	Serial ATA, 6-Channel Audio	IEEE 1394A, Serial ATA, 6-Channel Audio	Serial ATA, 6-Channel Audio	Serial ATA, 6-Channel Audio

A. G. Computers
(416)967-7485

Acetec Computers Inc.
(905)276-3891

Tomken Technologies Corp.
(905)625-9889

Canada Computers
(905)946-9688

Compumemories
(416)232-2777

Eiz Inc.
(905)940-1818

Filtech Computer
(416)204-9904

FJ Computers
(416)496-3979

Infonec Computers
(416)410-5481

Liate Computer Co.
(905)804-9488

NCIX.com
(604)288-8080

PC Village
(905)889-5488

PCCom Corp
(416)781-0496

Premier Computer Canada
(416)251-2215

Big Fist Computers
(905)471-3974

U Computer
(416)293-9933

UR Computer Co.
(416)499-7890



For Latest Pricing and Products, visit:

www.liata.com

Second driveway south of Burnhamthorpe Rd, West

MERCURY-750



DURON 1.5
\$299

* Monitor Extra, System Not Exactly As Shown

Mercury KM265PM-U Motherboard
256MB PC3200 DDR RAM
1.44MB Floppy Drive
LG 52/52 CD-RW/Writer w/ Nero
Motorola 40GB 7200RPM HDD
Video/LAN/Audio
Pair of Speaker
PS2/Keyboard & Mouse
ADM Mid Tower Case
1 Year Parts & 3 Year Labour Warranty

ADM 939



Athlon 64 3100+
\$839

* Monitor Extra, System Not Exactly As Shown

ASUS ABUS Motherboard
OCZ 1GB Premier Dual Channel DDR RAM
1.44MB Floppy Drive
LG 4163B 16X DVD+/-RW Dual Layer
WD 160GB 7200RPM HDD
ASUS 6500 128MB PCI-Express Video
Onboard LAN and Audio
Pair of Speaker
Logitech Cordless LX300 KB & Mouse
Skyhawk 4658 4500MB Mid Tower Case
1 Year Parts & 3 Year Labour Warranty

LIFESTYLE-775



P4 530 3.0GHz
\$888

* System Not Exactly As Shown

ASUS P5GD1 Motherboard
512MB PC3200 Dual Channel DDR RAM
LG 4163B 16X DVD+/-RW Dual Layer
WD 160GB 7200RPM HDD
ASUS 6200 256MB Video
Dell 17" LCD Monitor
Onboard LAN & Audio
Speaker with Subwoofer
Logitech Cordless LX300 KB & Mouse
A319 Mid Tower Case
1 Year Parts & 3 Year Labour Warranty

AMD GAMER



Sempron 2800+
\$873

* System Not Exactly As Shown

ASUS KBV-5478 M/B
512MB PC3200 Dual Channel DDR RAM
LG 4163B 16X DVD+/-RW Dual Layer
WD 80GB 7200RPM HDD
ATI Mobility Radeon X600 Graphic
DVD+/-RW Dual Layer, Bluetooth, WiFi 802.11g
40GB Hard Drive
1 Year Parts & 3 Year Labour Warranty

BACK TO SCHOOL SPECIAL

EARLY BIRD EDITION

ACER Aspire™ 3502

Designed to deliver high performance in a portable package that's both appealing & affordable.



CONFIGURATIONS:

- Microsoft® Windows® XP Home
- Intel Celeron 1.4GHz
- 256MB RAM, 40GB Hard Drive
- Integrated 64MB AGP
- 15" TFT with 800x600 resolution
- 10/100 LAN, 802.11g
- 60GB Hard Drive

LaCie 160GB d2 HDD with Triple Interface

This Powerful drive provides the convenient and universal connectivity of USB 2.0, Firewire, and Firewire 800.

ASUS Notebook

W3V

DAILY
\$2138

Intel Centrino 750 1.8GHz (Dothan)
Microsoft Windows XP Professional
512MB DDR Memory
15" WXGA Widescreen "Color Shine" LCD
ATI Mobility Radeon X600 Graphic
DVD+/-RW Dual Layer, Bluetooth, WiFi 802.11g
40GB Hard Drive

A6Ne

ONLY
\$1388

WE CAN BEAT ANY ADVERTISED PRICE

Dell E173FP 17" LCD



16ms Response Time
Brightness (Typical): 260 cd/m²
Contrast Ratio: 450:1
MaxNative Resolution: 1024 x 768
Emissions Standard: TCO '99

\$265

NEC 3540 16X DVD+/-RW Burner



\$56

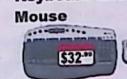
Viewsonic VA702b 17" LCD Black



\$296

12ms Response Time
Brightness (Typical): 300 cd/m²
Contrast Ratio: 500:1
MaxNative Resolution: 1024 x 768
Emissions Standard: TCO '99

Microsoft Wireless Keyboard and Mouse



\$32*

Pentium 4 M 1.9GHz
256MB Memory
40GB Hard Drive
DVD-ROM Drive
56K Modem
15" TFT Display
LAN/Audio/Video
Windows XP Pro.

Pentium 4 1.6GHz
256MB Memory
20GB Hard Drive
CDROM Drive
10/100 Ethernet
56K Modem
LAN/Audio/Video
USB Ports

Pentium 4 M 1.9GHz
256MB Memory
40GB Hard Drive
DVD-ROM Drive
56K Modem
15" TFT Display
LAN/Audio/Video
Windows XP Pro.

REFURBISHED

Compaq Evo W6000



COMPAQ

\$350



P4 2.0GHz



Pentium 4 2.0GHz
- Pentium 4 2.0GHz
- 256MB Memory
- 40GB Hard Drive
- CDRW Drive
- 10/100 Ethernet
- Floppy Drive
- LAN/Audio/Video
- Sound Card
- USB Port



Pentium 4 1.6GHz
- Pentium 4 1.6GHz
- 512MB Memory
- 40GB Hard Drive
- DVD-ROM Drive
- CDRW Drive
- Wireless Network
- 56K/Modem
- LAN/Audio/Video
- USB Ports



Pentium 4 M 1.9GHz
- Pentium 4 M 1.9GHz
- 256MB Memory
- 40GB Hard Drive
- DVD-ROM Drive
- 56K Modem
- 15" TFT Display
- LAN/Audio/Video
- Windows XP Pro.

Resellers Welcome, we carry a wide range of computer parts and accessories



Model: HP585D

Best Value • Best Choice
ORION

⇒ 20+4 Main Power Connector Supports Latest "LGA 775 Motherboards" and "PCI Express Video Cards"
⇒ Super Quiet Technology: Smart Fan Control Function Keeps Noise Level Under 22dBA
⇒ Excellent Protection Functions Provide Maximum Reliability: OVP (Over-Voltage Protection), UVP (Under-Voltage Protection), OPP (Over-Power Protection), SCP (Short-Circuit Protection)
⇒ Over and under voltage protection
⇒ High Efficiency (>75%)
⇒ High Energy Power With Low Ripple Noise
⇒ 100% Hi-Port, Chroma & Burn-in Function Tested



Super Silent



ATX 12V v2.0



Dual Fans



Serial ATA



PCI
Express



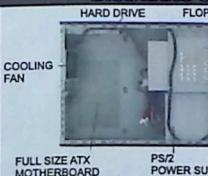
24
(24+4) PIN
Connector

Distribute exclusively by Liata

HARD DRIVE

FLOPPY DRIVE

CD ROM



New Slim Case

470 x 140 x 360 mm

Support Motherboard:
- ATX
- Micro ATX
- Flex

Model: 702
Visit Our Website for More Case



Soyo SY-TechAID Debug Diagnostic Card

Conduct a complete hardware diagnostic test to detect defective hardware quick & easy. Just plug into the PCI slot of the motherboard.



GlobalSat Bluetooth GPS Receiver

Orion Series Power Supply

- XP320 - XP400
- XP400D - XP480
- XP480D - XP550
- HP485D* - HP585D*
* 24 Pin, Dual Fan, SATA & 6Pin PCI-E

Evotec Aluminum Power Supply

- LP6100C 300Watts

- LP6100P 400Watts

HEC Silent Series Power Supply

ENERMAX Series Power Supply



All prices are 3% discounted for cash or debit, any other form of payment will be at regular price. We reserve the right to limit quantities. All Logos & register trademarks are of their respective companies. Liata not responsible for typo errors.

up to two hours of video and 54 chapter stops. A thumbnail pictorial index is included. YesVideo can also create a 60-second highlight music video from your footage – with music of your choice – using its auto edit system, which counts musical beats to select edit points and puts transitions between them.

For those who want more control over how their video gets edited, there's HomeMovie.com.

Its new Affiniti is an enhanced online environment where, with just a computer and Internet connection, you can edit your own videos online, deleting footage you don't want, creating titles, adding menus, chapter stops, a still image gallery and more to your raw footage.

Having mailed your raw video footage to the company, and after they digitize it and open your account, you edit through a unique Web-based editing interface that is really quite easy to use. You scroll through your footage online, selecting start and stop points along the way with simple mouse clicks. Then, choosing from among several available type fonts, colours and backgrounds, you can create your own customized menu.

Users can also preset and determine who has viewing access to the material; once the information is entered, an email invitation is sent out with a hotlink for easy and immediate viewing.

With Affiniti, users can scan through an entire two-hour video in a matter of seconds – a handy and convenient online feature – or navigate through the program just like a DVD. The company reports that some customers just use the service to screen and scroll through their

video footage, but many others enjoy the full editing process.

The company will store up to 20 hours of video online for about \$10 a month, and will also sell you a \$20 DVD of the final edit (there's a small fee per digitized tape).

Video is delivered as a 350-kilobit stream, in a 340x240 window. It looks and plays just like your DVD – complete with chapter menus, thumbnails and custom chapter markers. The DVD itself comes with a custom cover and case, and looks and plays just like store-bought discs.

[muvee Technologies](http://muvee.com) offers a very unique video-editing product (although it is a PC-based solution that requires some computer knowledge and set-up to use).





BACK TO SCHOOL

Free 17" CRT Monitor
Free Upgrade 80G HDD



\$ 599
Intel Celeron D 320 (2.4GHz)
256MB DDR PC400
40GB Samsung 7200 RPM Hard Drive
52X Samsung CD-ROM
Microsoft Windows XP Home
McAfee Virus Scan 2005

2580B

Free Upgrade 17" LCD Flat Panel
Free Lexmark Photo All-In-One Printer
Free Microsoft Work Suite 2005

\$ 1199
Intel Pentium 4 3.03G (3 GHz) HT Technology.
512 MB DDR PC 400, 160GB EMB Cache Hard Drive
16X DVD+/-RW Samsung optical drive, Logitech X-100 Speaker, Logitech
Keyboard, Optical Mouse, Microsoft Windows XP Home,
McAfee Virus Scan 2005

2580A

Free Upgrade 17" LCD Flat Panel
Free Upgrade 160G HDD

\$ 899
Intel Celeron D 330 (2.4GHz), 512MB DDR
PC400, 80GB Samsung 7200 RPM Hard
Drive, DVD+/-RW Samsung optical drive,
Logitech X-100 Speaker, Logitech Keyboard, Optical Mouse,
Microsoft Windows XP Home, McAfee Virus Scan 2005

NOTEBOOKS

 \$1649 Intel Pentium M 730 (2.0GHz), 15.4" WXGA 1GB DDR2 100GB hard drive, DVD-RW, 10X DVD+/-RW, 52X CD-RW MS. Windows XP Home, Norton Anti Virus 2005	 \$1499 Intel Pentium M 735 (1.8GHz), 512MB DDR 50 GB hard drive, DVD-RW optical drive Integrated 1.3MP Camera MS. Windows XP Home, Norton Anti Virus 2005	 \$849 Intel Celeron M 1.4, 1.5, 2.0 GHz TET, 256MB DDR, 40GB hard drive, DVD, CD-RW optical drive, MS. Windows XP Home, McAfee Virus Scan 2005
--	--	---

LCD Monitor
Philips 1705B
17" LCD Monitor

259

Lazer Printer
Samsung 1810
Laser Printer

139

Speaker
Logitech X-230
2.1 Speaker

45

Head set
LG Microphone
Headset

8

DVD-R
Ridata 5X 52Pack
DVD-R

6

DVD Writer
LG 16X Dual Layer
DVD-RW 4163B

55

Storage
Samsung 160GB
SATA

109

OFF-LEASE COMPUTERS / NOTEBOOKS
CLEARNCE PRICED ! BLOW OUT SALE !

WE DO REPAIR NOTEBOOK, MOTHER BOARD, CPU PIN

HUB**PRESENTS ITS Bi-Monthly
PHOTO SPREE****THE CHALLENGE: Summer fun****WIN!****Epson Stylus Photo R320**

A fast, full-featured performer, the Epson Stylus Photo R320 makes printing brilliant, long-lasting photos a snap. It prints directly on ink jet printable CD-Rs and DVD-Rs, so it's easy to customize each disk. This versatile printer includes a color monitor to view, select and crop photos. Print from popular memory cards or PictBridge-enabled digital cameras. For beautiful frame-ready photos, take advantage of BorderFree printing.

**HUB's Photo Spree contest form. All submissions must contain this information. Send to contest@ppublishing.ca****Deadline: August 15, 2005**

Name:
 Address:
 E-Mail:
 Phone Number:

THE RULES: You must use a digital camera to capture the subject. Work can be submitted via email (contest@ppublishing.ca). Accompanying your photo should be the make and model of the camera you used, the names of any software you used to modify the image and, if possible, the f/stop and shutter speed you used to take the photo.

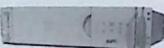
Submit your photographs, along with the information from the form below, by August 15, 2005. You can submit up to three photographs, all of which must be accompanied by a submission form. Entries must be submitted via email. Files should be no bigger than 500 KB and no smaller than 300 KB. One photo per email.

Contest Rules: Prizes must be claimed by September 19 2005. Winners must provide valid identification upon claiming prize. The prizes awarded are not transferable and cannot be redeemed for cash. To enter and to be eligible to win, persons must be residents of Canada, and not employees or be domiciled with an employee of Piccolo Publishing, its affiliate companies, or advertising or promotional agencies. The winners will be selected by HUB on August 17, 2005 from among all eligible entries received on or before contest close date. Winners will be contacted by telephone or email. In the event that they cannot be contacted within the first week following the contest another entrant will be selected. All entries become the property of HUB and may be used in subsequent advertisements for the contest. All entries must be submitted by their artist and must be original work.

LOOKING FOR A UPS.....FOR LESS?**REPLACEMENT BATTERIES**

Brand New APC Equivalent

RBC2 \$19	RBC7 \$94
RBC3 \$39	RBC8 \$79
RBC4 \$33	RBC9 \$39
RBC5 \$39	RBC11 \$188
RBC6 \$76	RBC12 \$188

**APC Smart-UPS 1500VA
USB**Street Price \$799-
Our Price \$329**APC Smart-UPS 2200VA**Rackmount 3U
Street Price \$1299
Our Price \$499**1 YEAR WARRANTY
ON ALL REFURBISHED UPS SYSTEMS
Brand New Batteries Installed!!!**

APC Back-UPS Pro 280VA
Street Price \$109
Our Price \$35



APC Smart-UPS 700VA
Street Price \$349
Our Price \$99



APC Smart-UPS 1000VA
Street Price \$499
Our Price \$169



APC Smart-UPS 1400VA
Street Price \$699-
Our Price \$239

**WHY UPSforLESS?**

- Up to 80% savings from new.
- Canada's Largest Refurbished UPS supplier.
- Government & Educational P.O.'s welcome.
- Reseller Discount Programs.
- We purchase old UPS systems
- Trade-ins welcome

APC
Legendary Reliability™

OVER 3000 UPS UNITS
& BATTERIES IN STOCK
280VA - 5000VA



UPS FOR LESS
experts in uninterruptible power supplies
www.upsforless.ca
TOLL FREE (866) 577-3628

FREE SHIPPING*

on all UPS purchases
over \$250 within GTA
(Valid to 08/31/05)

7880 Woodbine Ave. Unit D
(Rear of Building)
Markham, ON
Tel: (905) 477-9315
sales@upsforless.com
Monday - Friday : 9 - 5

HOME
Best Value**\$629**

Intel Pentium 4 - 530 w/ HT Technology
3GHz, 1MB L2 Cache, 800MHz FSB
ASUS P5LD2-VM 1945G PCI-E Mainboard
512MB DDR2-533 SDRAM Memory
80GB Seagate SATA Hard Drive 7200rpm
Intel Graphics Media Accelerator 900
LG DVD Writer 16X DVD-RW Drive
Integrated Sound & 2.1 Speakers System
Integrated Intel 10/100 Ethernet LAN
16" Front USB Tower Case 350W Power
Optical Mouse & Internet Keyboard
• Monitor not included
(Optional: Add Windows XP Home for \$ 99)

D-PRO
Pentium D**\$1199**
with 17" LCD

Intel Pentium D - 830 Dual-Core Design
3.00GHz, 2x1MB L2 Cache, 800MHz FSB
17" LG L1750S LCD Flat Panel Display
ASUS P5LD2-VM 1945G PCI-E Mainboard
512MB DDR2-533 SDRAM Memory
160GB WD SATA Hard Drive 7200rpm
ATI X300SE 120MB PCI-Express Graphics
LG DVD Writer 16X DVD-RW Drive
Integrated Sound & 2.1 Speakers System
Integrated 100/1000 Gigabit Ethernet
16" Front USB Tower Case 350W Power
Optical Mouse & Internet Keyboard
1.44MB Floppy Drive
(Optional: Add Windows XP Home for \$ 99)

D-POWER
Pentium D**\$1629**
with 17" LCD

Intel Pentium D - 840 Dual-Core Design
3.20GHz, 2x1MB L2 Cache, 800MHz FSB
17" LG L1750S LCD Flat Panel Display
ASUS P5LD2-VN 1945G PCI-E Mainboard
OCZ 1GB Dual Channel DDR2-533 VALUE
200GB WD SATA Hard Drive 7200rpm
ATI X600GT 128MB PCI-Express Graphics
LG DVD Writer 16X DVD-RW Drive
Integrated Sound & 2.1 Speakers System
Integrated 100/1000 Gigabit Ethernet
16" Front USB Tower Case 430W Power
Microsoft Optical Mouse & Keyboard
1.44MB Floppy Drive
(Optional: Windows XP Home for \$ 99)

E-Gamer
3800Bp**\$2129**
with 19" LCD

AMD Athlon 64 - 3800Bp Socket 939
with AMD64 Original Retail Fan & Cooler
19" Samsung 915N-II 8ms LCD Display
ASUS A8N-SLI nForce4 SLI Motherboard
OCZ 2GB Dual Channel DDR400 VALUE
300GB Maxtor SATA HD w/16MB Cache
ASUS EN6600GT 120MB CPCI-E Graphics
Pioneer DVD Writer 16X DVD-RW Drive
Sound Blaster Audigy 2 ZS Sound Card
Logitech 5.1 Speakers Surround System
Integrated 100/1000 Gigabit Ethernet
16" Front USB Black Tower 430W Power
Microsoft Optical Mouse & Keyboard
1.44MB Floppy Drive

**3YR
WARRANTY****CASH ONLY SPECIALS****Hard Drive**

80GB	WD IDE 8MB Cache	7200rpm	\$ 69
160GB	WD IDE 8MB Cache	7200rpm	\$ 99
160GB	WD SATA 8MB Cache	7200rpm	\$ 105
200GB	WD SATA 8MB Cache	7200rpm	\$ 125
250GB	WD SATA 8MB Cache	7200rpm	\$ 145
80GB	Seagate SATA 8MB Cache	7200rpm	\$ 78
160GB	Seagate SATA 8MB Cache	7200rpm	\$ 108
200GB	Maxtor SATA 16MB Cache	7200rpm	\$ 128
250GB	Maxtor SATA 16MB Cache	7200rpm	\$ 148

DVD Writer (w/ software)

LG 16X 4163B	DL DVD+RW	\$ 58
Pioneer 16X DVR-109	CD-RW	\$ 63
Flexion 16X 740A	DL DVD+RW	\$ 115
Flexion 16X 716SA	SATA DL DVD+RW	\$ 165

Wireless Networking

D-Link Wireless-G DWL-822C Starter Kit	\$ 70
w/ Wireless-G Router + USB Adapter	\$ 68
Linksys Wireless-G 4-port Router	\$ 59
Linksys Wireless-G USB Adapter	\$ 59
D-Link Wireless-G Notebook DWL-G650	\$ 59

Sandisk

512MB ULTRA II SD CARD	\$ 72
1GB SECURE DIGITAL SD CARD	\$ 89
512MB ULTRA II COMPACT FLASH	\$ 50
1GB ULTRA II COMPACT FLASH	\$ 115
2GB ULTRA II COMPACT FLASH	\$ 229
512MB Memory Stick Pro Duo	\$ 79
1GB Memory Stick Pro Duo	\$ 125


eSkyNET
Professional
IT Services

Web Development - Shopping Cart
On-Site Service - Networking
Upgrades - Repairs - Support
Software / Hardware Installation

Please call 905-513-7072 for details
or email to us

services@eskynet.com

Cash or Interac. Tax extra. Prices are already 3% cash discounted. No Refund. Prices are subject to change. Prices keep changing (lower), please check our web site for most updated prices.

**LG 17" L1750S** 12ms **\$289****LG 19" L1950S** 12ms **\$389****LG L172WT LCDTV** Wide **\$579****Samsung 710N-II** 8ms **\$339****Samsung 915N-II** 8ms **\$449****Viewsonic VA702b** 12ms **\$299**

All comes with 3-Year Warranty

**WACOM**

Wacom pen tablets are the fastest,
most comfortable way
to work with your computer.

WACOM GRAPHIRE3 4"X5" **\$ 99****WACOM GRAPHIRE3** 6"X8" **\$ 199****WACOM INTUOS3** 4"X5" **\$ 249****WACOM INTUOS3** 6"X8" **\$ 359**

Tel.905.513.7072
shop@eskynet.com

3255 HWY.7 EAST, UNIT 62
MARKHAM, L3R3P9

Store Hours:

Mon.-Fri.	11am	to 8pm
Saturday	11am	to 6pm
Sunday	12 noon	to 5pm

HWY. 7 East

Hwy 404 N.
Woodbine Ave.
Two traffic lights east
of Woodbine Ave. Next to
Golf Town, inside the mall.

All things to everyone?

Multi-function digicam tries to do it all

Getting six devices for the price of one can't be a bad thing, right?

Despite the fact that some functions of the DVx digital video camera from budget camera maker Concord feel tacked on just to be able to claim six devices in one, the unit itself is, as a whole, decent.

An MPEG-4 digital video camera, 2-megapixel digital camera, digital audio player voice recorder and (for the aforementioned add-ons) "high intensity LED flashlight" and SD/MMC card reader, the DVx does a lot. But does it do it right?

As a flashlight and SD/MMC card reader, sure it does. Other, more important functions work, and in some cases work well, but none is truly exceptional.

Digital video

Users can record video in MPEG-4 format to SD card at either 320x240 or 640x480 resolution with a variety of quality settings. A few "special effects" settings can also be applied to raw video as it's recorded with simple sepia, black & white, RG or B filtering settings. By giving access to several different ISO settings from 100 to 800, the DVx does more than one might expect on the video front from a device whose nets are cast so wide.

While shooting video, however, users can't turn on the white LEDs



THORNHILL

180 STEELES AVE. W. #30
TEL 905-762-9811 / 9813
FAX 905-762-9812
Mon-Fri 11:00-8:30
Sat-Sun 11:00-6:00

STEELIES AVE. W.
YONGE ST.
FINCH AVE. W.

LAPTOP

Special

Acer Travelmat
2304/LCI \$599
15"XGA/Cel-I 1.3G/256M
40GB/CDRW/DVD+DVD
Modem/Wireless/XP/Home

TM4150LCI \$1199
15"Centro/5.0G/512M
60GB/CDRW+DVD/LAN
Modem/Wireless/XP-Pro

ECS 536 \$779
15"XFT/ Sempron-2 M600+
256M/40GB/CDRW+DVD
LAN/Modem/Wireless/Lan

ASUS NOTEBOOK
ASUS Z90K \$1389
AMD ATHLON 4000+
15"XGA/512M/60GB
DVD+CDRW/LAN/Modem
ATI R9700 PRO / Wireless

ASUS Z91N \$1089
15"XGA/Centro 1.6G
256M/40GB/CDRW+DVD

ASUS M60N \$1499
15.4"WXGA/Centro 1.6G
512M/60GB/CDRW+DVD
ATI Radeon 9700 / Wireless
More.... Our website

\$429

INTEL P4 2.8 Ghz
ASROCK P4145GV M/B
256 MB DDR333 RAM
80 GB HDD 7200 RPM
INTEL 64MB Graphics
523X252 CD-RW
SOUND / LAN / FDD
PS2 KB / MOUSE
FRONT USB CASE
P-4.2 GHZ \$379

\$289

CELERON D 2.4 Ghz
ECS PM800-M2 M/B
256MB DDR RAM
40 GB HDD 7200RPM
64MB 4X VIDEO
52X CD-ROM DRIVE
SOUND / LAN / FDD
PS2 KB / MOUSE
FRONT USB CASE

\$279

Sempron 2400+
ECS KM4400-M2 M/B
256 MB DDR RAM
40 GB HDD 7200 RPM
64MB 4X VIDEO
52X CD-ROM DRIVE
SOUND / LAN / FDD
PS2 KB / MOUSE
FRONT USB CASE

\$439

Amd Athlon-64 2800+
ASUS K8S-MX (S-754)
512MB DDR 400 RAM
80 GB HDD 7200RPM
REAL 256E GRAPHICS
52X32X52 CD-RW
SOUND / LAN / FDD
KB / MOUSE / SPK
FRONT USB CASE

\$279

AMD Athlon-64 3000+
ASUS A8V BX (S-939)
512MB DDR 400 RAM
160 GB HDD 7200RPM
RADEON 9250 128MB
16X DVD+/-RW DRIVE
SOUND / GB-LAN / FDD
KB / MOUSE / SPK
FRONT USB CASE

\$299

SEMpron 2600+ \$+59

Athlon-64 3000+ \$+59

Athlon-64 3200+ \$+59

Athlon-64 3500+ \$+59

Athlon-64 4340 \$+79

mounted next to the lens to act as a video light, even in "night" shooting mode.

Viewed on the DVx screen or on the PC, video recorded at 15 FPS 640x480 can be slightly jerky, but is better overall than might be expected from a multi-function device such as this.

Digital camera

A short but still noticeable shutter lag mars what is otherwise a good, quick and dirty point and shoot camera's performance in the case of the DVx.

That said, images are produced faithfully from the fixed focus lens. It would by no means replace a standard point and shoot cam, but the camera function performs impressively for an "all things to everyone" device.

Rather than offer a traditional charged flash, the DVx opts for two bright white LEDs that tend to throw a bluish cast when used. At any distance though, this setup is essentially useless.

Music player

The music-playing portion of the DVx is also fairly barebones, as is perhaps to be expected.

It suffers from some usability issues. First and foremost is the fact that getting MP3 files to be recognized as such is an exercise in frustration. Files can only be played from one very specific folder on the device. Said folder has to be inside another specifically named folder,

DVx by Concord

www.concord-camera.com

Price: \$200

Dimensions (WxLxH): 52x161x17mm

Screen: 1.5-inch TFT LCD

Included storage: 128MB SD

Book:

Multi-function

Small and lightweight

Vertically rotating lens / light assembly

Storage media included

Bad:

No one function truly excels

General slow operation /

navigation

MP3 player poor

and makes music transfer to the device a chore. Also, the device doesn't support foldering under this directory and rather than display file names, the device kicks up useful track info like "File 1", "File 2" and the current dance hall hit "File 3".

Sound comes across fine but with too few graduations in volume; 21

Bathurst		401 Lawrence Glencairn	2788 Bathurst Street, Unit 105 North York, Ontario M6B 3A3	PC COM		Mon - Fri: 10:30am-7:30pm
		Beside Royal Bank Free Parking In Parking Lot	Tel: (416) 781-0496 Fax: (416) 781-2759 Email: support@pccom.ca	For more savings, check latest price @ www.pccom.ca		Sat : 10:30am-5:00pm
 ASUS Notebook		Intel Centrino-1.6G (Z91E) \$1169 15.4" TFT, 512MB, 40GB HDD, DVD-CDRW, 56K, LAN, WLAN, With 0.35 Mega Pixel Built-In-Camera, 4.5 Hrs.	25pcs DVD-R with system purchase over \$500.00 before tax \$499 Intel P4-3.00 512M PC3200 DDR 80GB 7200RPM HDD 52x3x2x52 CDRW & 16x DVD_Cambo Video, Sound, LAN KB, Mouse, SPK	\$459 AMD XP2800+ 512M PC3200 DDR 80GB 7200RPM HDD 52x3x2x52 CDRW & 16x DVD_Cambo Video, Sound, LAN KB, Mouse, SPK	\$589 Intel P4-3.0G 512M PC3200 DDR 80GB 7200RPM HDD 16x DVD+/-RW Video, Sound, LAN 400W ATX Case KB, Optical Mouse 600W Subwoofer SPK	\$859 Intel P4-3.2G 512M PC3200 DDR 16x DVD+/-RW Video, Sound, LAN 400W Gaming Case KB, Optical Mouse 600W Subwoofer SPK
Intel Centrino-1.6G (Z71E) \$1219 15.4" TFT, 512MB, 60G, DVD-CDRW, 56K, LAN, WLAN, 128MB Video, 1394, Card Reader, 5.5 Hrs. 1.8G+512M+80GB \$1370 Upgrade to DVD+RW. Add: \$80		\$599 2512M Corsair PC3200 DDR 922C Wireless 12 \$25/29 4X/8X Maxus DVD+R 100pc	\$75 G 524+ USB Card Wireless Router 256/512M/1GB Kingston USB Drive \$29/43/79	\$699 Intel LGA775-3.2G ASUS P5GD1 M/B 512MB PC3200 DDR 160GB SATA 7200RPM LG 16x DVD+RW Nvidia P4200 256M PCIe 8 Channel Sound Gigabit LAN Ergonomic KB, Mouse 600W Subwoofer SPK	\$579 Intel P4-3.0G ASUS OEM ASRock M/B 512MB PC3200 DDR 160GB 7200RPM HDD LG 16x DVD+RW ATI Radeon9550 256M 6 Channel Video Shared 6 Channel Sound 10/100 LAN Free Keyboard, Mouse, Speakers	\$459 Intel P4-3.0G ASUS OEM ASRock M/B 256MB PC3200 DDR 80GB 7200RPM HDD 52x24x52 CD-RW 64MB Video Shared 6 Channel Sound 10/100 LAN Free K/S, Mouse, SPK P4-2.8G \$359
Intel Centrino-1.6G (Z33A) \$1289 12.1 TFT, 256MB DDR2, 40G BMB, DVD-CDRW, 56K, LAN, WLAN, 1394, WLAN, 350B, 56K, Ultra Slim, 3.5L R		\$599 2512M Corsair PC3200 DDR 922C Wireless 12 \$25/29 4X/8X Maxus DVD+R 100pc	\$75 G 524+ USB Card Wireless Router 256/512M/1GB Kingston USB Drive \$29/43/79	\$699 Intel LGA775-3.2G ASUS P5GD1 M/B 512MB PC3200 DDR 160GB SATA 7200RPM LG 16x DVD+RW Nvidia P4200 256M PCIe 8 Channel Sound Gigabit LAN Ergonomic KB, Mouse 600W Subwoofer SPK	\$579 Intel P4-3.0G ASUS OEM ASRock M/B 512MB PC3200 DDR 160GB 7200RPM HDD LG 16x DVD+RW ATI Radeon9550 256M 6 Channel Sound 10/100 LAN Free Keyboard, Mouse, Speakers	\$289 Intel P4C-2.4G ASUS OEM ASRock M/B 256MB PC3200 DDR 80GB 7200RPM HDD 52x24x52 CD-RW 64MB Video Shared 6 Channel Sound 10/100 LAN Free K/S, Mouse, SPK P4-2.8G \$359
AMD 64 3000+ (Z81K) \$1379 15.4" (1680x1050), 512MB, 40G, DVD-RW, 1394, 56K, GBLAN, WLAN, All.Radeon 9700 128MB Video 3400+1GB+80GB \$1569 Upgrade to DVD+RW Add: \$80		\$799 256M/S12M/1GB Sandisk SD Card \$265 LG External DVD 17" Dual DVD+RW 12MS, 4-Yr WTY	\$265 ASUS K8N Mainboard 512M PC3200 DDR 160GB SATA 7200RPM LG 16x DVD+RW ATI Radeon9550 256M 8 Channel Sound Gigabit LAN Internal KB, Mouse 600W Subwoofer SPK	\$699 AMD 64 3400+ ASUS K8N Mainboard 512M PC3200 DDR 160GB SATA 7200RPM LG 16x DVD+RW ATI Radeon9550 256M 8 Channel Sound Gigabit LAN Internal KB, Mouse, Speakers \$300+	\$459 AMD 64 2400+ ECS Mainboard 512M PC3200 DDR 80GB 7200RPM HDD LG 16x DVD+RW ATI Radeon9250 128M 8 Channel Sound 10/100 LAN K/S, Mouse, Speakers \$400+	\$389 AMD XP2800+ ECS Mainboard 512M PC3200 DDR 80GB 7200RPM HDD LG 16x DVD+RW ATI Radeon9250 128M 8 Channel Sound 10/100 LAN Free Keyboard, Mouse, Speakers XP2800+ \$249
Aspire 3502NLCI 15" \$719 Celeron M-1.4G, 256MB, 40G HDD, 15", CDRW-DVD 56K, LAN, WiFi (B/G), 4 USB2.0, IEEE1394, Linux Boot		\$799 256M/S12M/1GB Sandisk SD Card \$265 LG External DVD 17" Dual DVD+RW 12MS, 4-Yr WTY	\$265 ASUS K8N Mainboard 512M PC3200 DDR 160GB SATA 7200RPM LG 16x DVD+RW ATI Radeon9550 256M 8 Channel Sound Gigabit LAN Internal KB, Mouse, Speakers \$300+	\$699 AMD 64 3400+ ASUS K8N Mainboard 512M PC3200 DDR 160GB SATA 7200RPM LG 16x DVD+RW ATI Radeon9550 256M 8 Channel Sound Gigabit LAN Internal KB, Mouse, Speakers \$300+	\$459 AMD 64 2400+ ECS Mainboard 512M PC3200 DDR 80GB 7200RPM HDD LG 16x DVD+RW ATI Radeon9250 128M 8 Channel Sound 10/100 LAN K/S, Mouse, Speakers \$400+	\$249 AMD S-2200+ Biostar Mainboard 256MB PC3200 DDR 80GB 7200RPM HDD 52x24x52 CD-RW 64MB Video Shared 6 Channel Sound 10/100 LAN XP2800+ \$249
Travelmate 2355LCi 15" \$999 Celeron M-1.4G, 512MB, 60GB HDD, CDRW-DVD, ATI 9000 Video, 56K, LAN, WiFi (B/G), 4 USB2.0, XP Pro		\$999 256M/S12M/1GB Sandisk SD Card \$265 LG External DVD 17" Dual DVD+RW 12MS, 4-Yr WTY	\$265 ASUS K8N Mainboard 512M PC3200 DDR 160GB SATA 7200RPM LG 16x DVD+RW ATI Radeon9550 256M 8 Channel Sound Gigabit LAN Internal KB, Mouse, Speakers \$300+	\$699 AMD 64 3400+ ASUS K8N Mainboard 512M PC3200 DDR 160GB SATA 7200RPM LG 16x DVD+RW ATI Radeon9550 256M 8 Channel Sound Gigabit LAN Internal KB, Mouse, Speakers \$300+	\$459 AMD 64 2400+ ECS Mainboard 512M PC3200 DDR 80GB 7200RPM HDD LG 16x DVD+RW ATI Radeon9250 128M 8 Channel Sound 10/100 LAN K/S, Mouse, Speakers \$400+	\$389 AMD XP2800+ ECS Mainboard 512M PC3200 DDR 80GB 7200RPM HDD LG 16x DVD+RW ATI Radeon9250 128M 8 Channel Sound 10/100 LAN Free Keyboard, Mouse, Speakers XP2800+ \$249
Aspire 5002LMi 15.4" \$1139 AMD Turion 3.0-1.6G, 512MB, 80GB HDD, DVD+RW, 56K LAN, WiFi (B/G), 4 USB2.0, IEEE1394, TV-out, XP Home		\$1139 160G USBD.0 \$125 200G USBD.0 \$149 250G USBD.0 \$175	\$305 17" Samsung 710N LCD, 12MS \$305	\$699 AMD 64 3400+ ASUS K8N Mainboard 512M PC3200 DDR 160GB SATA 7200RPM LG 16x DVD+RW ATI Radeon9550 256M 8 Channel Sound Gigabit LAN Internal KB, Mouse, Speakers \$300+	\$459 AMD 64 2400+ ECS Mainboard 512M PC3200 DDR 80GB 7200RPM HDD LG 16x DVD+RW ATI Radeon9250 128M 8 Channel Sound 10/100 LAN K/S, Mouse, Speakers \$400+	\$389 AMD XP2800+ ECS Mainboard 512M PC3200 DDR 80GB 7200RPM HDD LG 16x DVD+RW ATI Radeon9250 128M 8 Channel Sound 10/100 LAN Free Keyboard, Mouse, Speakers XP2800+ \$249
Aspire 1690WLMI 15.4" \$1229 Centrino-1.6G, 512MB DDR2, 80G HDD, DVD+RW, 56K LAN, WiFi (B/G), 4 USB2.0, Crystalflo Screen, XP Home All prices are already 5% cash discounted. Other form of payment will be cash discounted price plus 5%. Price subject to change without notice, 25% re-stocking fee. All sales are final.		\$1229 Centrino-1.6G, 512MB DDR2, 80G HDD, DVD+RW, 56K LAN, WiFi (B/G), 4 USB2.0, Crystalflo Screen, XP Home All prices are already 5% cash discounted. Other form of payment will be cash discounted price plus 5%. Price subject to change without notice, 25% re-stocking fee. All sales are final.	\$1229 Centrino-1.6G, 512MB DDR2, 80G HDD, DVD+RW, 56K LAN, WiFi (B/G), 4 USB2.0, Crystalflo Screen, XP Home All prices are already 5% cash discounted. Other form of payment will be cash discounted price plus 5%. Price subject to change without notice, 25% re-stocking fee. All sales are final.	\$1229 Centrino-1.6G, 512MB DDR2, 80G HDD, DVD+RW, 56K LAN, WiFi (B/G), 4 USB2.0, Crystalflo Screen, XP Home All prices are already 5% cash discounted. Other form of payment will be cash discounted price plus 5%. Price subject to change without notice, 25% re-stocking fee. All sales are final.	\$1229 Centrino-1.6G, 512MB DDR2, 80G HDD, DVD+RW, 56K LAN, WiFi (B/G), 4 USB2.0, Crystalflo Screen, XP Home All prices are already 5% cash discounted. Other form of payment will be cash discounted price plus 5%. Price subject to change without notice, 25% re-stocking fee. All sales are final.	\$1229 Centrino-1.6G, 512MB DDR2, 80G HDD, DVD+RW, 56K LAN, WiFi (B/G), 4 USB2.0, Crystalflo Screen, XP Home All prices are already 5% cash discounted. Other form of payment will be cash discounted price plus 5%. Price subject to change without notice, 25% re-stocking fee. All sales are final.

IPTV coming to a set near you

The history of the 75-year-old TV is paved with revolutionary milestones, from black and white transmission to a colour picture and stereo audio to the birth of digital television, which includes stunning high-definition broadcasts and multi-channel surround sound.

So, what's next you ask?

Simply, it's called IPTV. And it may be the biggest thing to happen to television since its inception.

IPTV stands for Internet Protocol Television. This means that the audio

and video signal will be streamed to your home via a network connection not unlike the broadband "fat pipe" that offers you high-speed Internet access.

Keep in mind, this is not streaming video via a Web site – it's a new way of delivering digital television content to your home over copper wire with a handful of advantages the likes of which we've never seen.

"This doesn't sound so revolutionary," you're thinking. Ok, so here's just a sampling of what IPTV can offer in the years to come:



- Interactive television: Imagine watching an episode of *Desperate Housewives*, and if you like the blouse worn by Susan Mayer (Teri Hatcher), you simply click on it with your remote or wireless mouse, which brings up an online store on the right-hand-side of the screen. You can also interact with the content on the show, such as answering questions during *Who Wants to Be a Millionaire* to compete for real cash and prizes against other at-home contestants.

- Chat with your friends via instant messenger on the bottom of the screen while watching your favourite movie. Or simultaneously surf the Web, read blogs and pick up email in one window while your favourite show plays in another.

- Use your television like a telephone so you can talk via your TV (using Voice Over Internet Protocol, or VoIP) and even see who's calling on your screen before you decide to answer it. You will even be able to access cell phone voicemail and text messages via an interface on your boob tube. Similarly, you will be able to take advantage of online ordering right from your TV; press a couple of buttons on the remote to order a pizza – and select all the toppings, too!

- Wirelessly access all of your computer's files in the den – such as MP3s, digital photos and camcorder footage – so you can enjoy the experience on your big-screen television with home theatre sound. Now you don't need to get the family to hover over a small monitor to see recent pics of the kids: simply press a button on your TV and a slide show begins, complete with fancy transition effects and music.

- With Video on Demand (VOD) you can choose to watch virtually any movie ever made and it will start playing when you tell it to. Now you don't have to leave your house to rent a DVD at a local video store and return that piece of plastic within a few days. Any movie, any time.

- Sign up to receive alerts and customized messages to highlight



**DESIGNED FOR SPEED.
PRICED TO GO FAST.**

LIMITED EDITION RACING NOTEBOOK

- Powered by Intel® Centrino™ Mobile Technology
- Designed for Formula One fans
- 15.4" wide screen with superior graphics
- Internal TV tuner available

\$1,599

AeroNote

www.aeroopen.com
1-877-289-2360

Limited time offer while supplies last. See store for details. © 2005 Intel Corporation. Intel, Intel Inside and the Intel Inside logo are trademarks and/or registered trademarks of Intel Corporation and its subsidiaries in the United States and other countries. All rights reserved. *Other names and brands may be claimed as the property of their respective owners.

North York
 2099 Steeles Ave. West Unit #14
 (Keto/Steeles)
 Tel: 416.937.7196
 Fax: 416.937.7197

Markham
 3229 Hwy 7 E #7
 (Hwy/Woodbine)
 Tel: 905.947.1918
 Fax: 905.947.1921

Toronto
 654 Yonge Street
 (Yonge/Gloor)
 Tel: 416.975.9268
 Fax: 416.975.0291

Toronto
 2221 Yonge Street
 (Yonge/Eglinton)
 Tel: 416.322.2221
 Fax: 416.322.0227

Scarborough
 4203 Sheppard Ave. East Unit #21
 (McCowan/Sheppard)
 Tel: 416.333.8007
 Fax: 416.333.3200

Richmond Hill
 245 Beaver Creek Rd. Unit #3
 (Leslie/Hwy7)
 Tel: 905.609.5409
 Fax: 905.609.0033

Mississauga
 Coming Soon

SUPER SPECIAL

INTEL P4 CELERON 2.4G CPU
 P4 MB, 256 MB DDR
 40GB 7200RPM HDD
 SAMSUNG 52X32X52 CD-RW
 32M AGP VIDEO CARD(SHARED)
 32 BIT SOUND CARD, 1.44 FLOPPY DRIVE
 10/100 NETWORK CARD
 BLACK ATX MID TOWER CASE
 BLACK KEYBOARD/MOUSE
 BLACK 120W SPEAKERS



*ALL SYSTEMS WITH FIVE YEARS LABOUR & ONE YEAR PARTS WARRANTY *

939 AMD 64BIT

AMD 64BIT ATHLON 3000+ CPU
 GIGABYTE GA-K8NC-939
 OCZ 512MB DDR400 DUAL CHANNEL(256X2)
 80GB 7200RPM SATA HDD, 1.44 FLOPPY
 BENQ 1620 DVD+/-RW DUAL LAYER
 ATI RADEON9250 128M VIDEO CARD
 10/100/1000 NETWORK CARD,
 32BIT SOUND CARD, ATX MID TOWER
 600W SPEAKERS WITH SUBWOOFER
 BENQ KEYBOARD/OPTICAL MOUSE
17" BENQ FP737 LCD(16 MS)



MONTHLY SPECIAL

PQI 512MB DDR400(LIFE TIME) \$59
17" BENQ FP737 LCD(DIGITAL) \$289
 SAMSUNG 17" 710N2(8MS) LCD \$309
 SAMSUNG 19" 915N2(8MS) LCD \$439
 SAMSUNG 19" 913V LCD \$369
 AOPEN 1608 DVD+/-RW DUAL LAYER \$46
 BENQ 1620 DVD+/-RW DUAL LAYER \$47
 SAMSUNG 80GB SATA HDD 7200RPM \$68
 SAMSUNG 120GB HDD 7200RPM \$79
 SAMSUNG 1520 LASER PRINTER \$99
 SAMSUNG 2250 LASER PRINTER \$185

* ALL PRICE ARE ALREADY 3% CASH DISCOUNTED, PRICE SUBJECT TO CHANGE WITHOUT NOTICE *

Hard Drive

IDE-HDD	7200	SERIAL
MAXTOR	RPM	ATA
40GB	\$58	
80GB	\$68	\$76
120GB	\$91	\$95
160GB (8M)	\$100	\$113
200GB (8M)	\$122	\$126
250GB (16M)	\$147	\$159
300GB (16M)	\$216	\$221
W.D.		
80GB	\$71	\$72
120GB (8M)	\$99	\$101
160GB (8M)	\$100	\$104
200GB (8M)	\$113	\$129
250GB (8M)	\$147	\$152
320GB (8M)	\$199	\$207
36GB(10,000RPM)	\$147	
72GB(10,000RPM)	\$232	
SEAGATE		
80GB	\$69	\$76
120GB (8M)	\$95	\$103
160GB (8M)	\$104	
200GB (8M)	\$123	
250GB (8M)	\$123	\$138
300GB (8M)	\$208	\$208

Video Card

ATI ALL-IN-W 128M R9600	\$170
ATI ALL-IN-W 128M R9600XT \$231	
ATI ALL-IN-W 128M R9800 P \$269	
ATI ALL-IN-W 256M X800T \$465	
ATI R2500 128M PCI (O) \$74	
ATI R2500 128M AGP(O) \$44	
ATI R5500 256M (O) \$72	
ATI R5600 PRO 128M(O) \$89	
ATI R6600 PRO 256M (O) \$105	
ATI R6600 XT 256M(O) \$114	
ATI R8600 PRO 128M(O) \$169	
ATI R8600 PRO 256M(O) \$198	
ATI X50 PRO 256M(O) \$499	
ASUS V9500 1024M 128M	
MSI NX600GT 128M	
ASUS V9999 6800GT 128M	
ASUS V9999 6800GT 256M \$509	
ATI X600PRO A-IN/W/PCIE	
ATI X300SE 128M/PCIE(O) \$66	
ATI X700PRO 256M/PCIE \$213	
ATI X850XT 256M/PCIE(O) \$547	
ASUS N6600 128M/PCIE \$163	
MSI NX8600 256M/PCIE/SLI \$382	
ASUS TV-FM CARD \$45	

Sound Card

AOPEN AW80	\$14
AOPEN AW850	\$19
S.B. LIVE OEM PCI	\$30
S.B. AUDIGY2 VALUE	\$50
S.B. AUDIGY2 ZS (O)	\$103
S.B. AUDIGY2 ZS (R)	\$206
S.B. AUDIGY2 PLATINUM	\$206
S.B. AUDIGY4	\$131

Power Supply



CD/DVD/CD-RW

LG 52X CD-ROM	\$17
LG 16X DVD	\$26
SAMSUNG 16X DVD	\$30
SAMSUNG 52X32X52	\$29
LG 52X32X52 CD RW	\$28
ASUS 52024KS2 CD RW	\$37
AOPEN DVD/CD-RW (O) \$39	
NEC 3520 DVD+RW(O) \$70	
PIONEER 103 DVD+RW(O) \$63	
PLEXTOR DVD+RW740R \$120	
BENQ DVD+RW 1620(O) \$51	
BENQ DVD+RW 1625(O) \$59	
LG DVD+RW 16X4163B(O) \$54	
ASUS DRW-1608P(O) \$79	

Ethernet

10/100 ETHERNET PCI	\$10
DLINK 10/100 NIC PCI	
COM 10/100 905C TX NIC	\$39
DLINK 10/100 8PORTS HUB	\$37
DLINK DI-6404 ROUTER	\$42
DLINK DI-704P ROUTER	\$63
DLINK DI-524G ROUTER	\$64
DLINK 802.11 G ADAPTER	\$48
LINKSYS 4 PORT ROUTER	\$63
LINKSYS 802.1B ROUTER	\$62
LINKSYS 802.11G ROUTER	\$73
LINKSYS 802.11GS ROUTER	\$91
LINKSYS 802.11B ADAPTER	\$55
LINKSYS 802.11G ADAPTER	\$62
LINKSYS 802.11GS ADAPTER	\$78

Printer

CANON	
PIXMA IP2000	\$54
PIXMA IP3000	\$99
PIXMA IP4000	\$155
SAMSUNG	
ML-1610	\$149
ML-2250	\$184
CLP510 COLOR	\$480
EPSON	
C66	\$84
C88	\$102
R200	\$125
HP	
LASER 1020	\$180
LASER 1320	\$447

BAREBONE SYSTEM

ASUS PUNDIT-R	\$219
ASUS S-PRESSO S1-P112	\$279
ASUS S-PRESSO S1-P111	\$399
SHUTTLE SB83G5	\$359
SHUTTLE SB51G2	\$314
SHUTTLE SN95G5V3	\$370

UPGRADE KIT

(INTEL CELERON2.4G CPU	\$179
+ GIGABYTE M/B + 256M DDR)	
(INTEL P4 2.4G CPU	\$279
+GIGABYTE M/B + 512M DDR)	
ATX CASE WITH 400W	\$29



P4VP-MX	\$60	A7V8X-X	\$61	17" 713M LCD	\$329	19" 910V LCD	\$369	17" T705 LCD	\$265
P4SB00D-X	\$71	A7NBX-X	\$74	17" 710V LCD	\$279	19" 913V LCD	\$369	17" FP737-D LCD	\$280
P4PB00 SE	\$116	ATI NBX-VM/400	\$94	17" 713V LCD	\$279	19" 193S LCD	\$399	17" FP767-16 LCD	\$285
P4PB00S-X	\$80	ATI NBX-X/DE	\$110	17" 710T LCD	\$379	19" 915N2 LCD	\$439	17" FP716-1 LCD	\$283
P4PB00-E DX	\$140	A7V800	\$80	17" 711T LCD	\$379	19" 910T LCD	\$569	17" FP716+ LCD	\$299
P4CA00-E DX	\$220	A7V8X	\$139	17" 713T LCD	\$315	19" 913T LCD	\$475	17" FP791 LCD	\$359
P5GD1	\$120	A8N-E	\$163	17" 712X LCD	\$539	19" 193P LCD	\$699	17" FP931 LCD	\$289
P5GD2-V DX	\$178	A8N-SLI	\$173	17" 710N LCD	\$315	21" 213T LCD	\$979	19" FP937 LCD	\$449
P5GD2-E DX	\$170	A8N-SLI DX	\$202	17" 710N2 LCD	\$315	32" 323T LCD	\$3299	19" FP937 LCD	\$549
P5GD2-E DX	\$237	K8V-X	\$80	17" 173P LCD	\$635	40" 403T LCD	\$5199	19" FP992 LCD	\$549
P5AD2-E Prem	\$260	K8N-SE DX	\$129	17" 793DF WHITE	\$119	997DF CRT	\$229	20" FP2091 LCD	\$996
P5P800	\$114	K8N-E DX	\$138	17" 793DF SILVER	\$125	997MB CRT	\$229	23" FP231W LCD	\$1579

* Call us for the best price about
 IBM, ASUS, ACER, GIGABYTE...
 Notebooks

upcoming favourite TV shows ("Hi Marc – do you want to set a timer to record the season premiere of Family Guy this Sunday night?"). And you will be able to personalize your content – choose the info to display on your TV such as local weather, traffic, news, sports scores, and more.

- Ditch your VCR and DVD recorder – the future is Personal Video Recorders (PVRs) that record all of your TV shows and movies to a hard drive capable of storing hundreds or even thousands of hours of content. What's more, this technology lets you "pause" and "rewind" live TV as it streams the content off its hard drive. You will even be able to set a timer remotely – such as through your work PC, PDA or a cell phone – by calling into your IPTV set and its connected components.

- Rather than sitting in your stiff office chair, kick back on the couch with remote in hand and play multiplayer games against other human opponents elsewhere in the world.

Sounds incredible? It's around the corner. Companies such as Bell

are making this happen as soon as late 2005 as they increase broadband speeds and continue to make improvements to digital video compression.

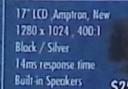
By Marc Saltzman

Questions and comments relating to the home entertainment section, including Marc Saltzman's monthly column, can be sent to homeentertainment@ppublishing.ca.



Grand Opening back to School Special

Promotion Items : While Quantity Last



17" LCD Amprion, New
1280 x 1024, 400:1
Black / Silver
14ms response time
Built-in Speakers



DVD Writer and Media Combo
16X DVD +/- RW(Dual Layer)
50pc DVD-R, RX Media



Kingston 512M DDR400(PC3200)
Memory



80G IDE-HDD (New OEM)
7200rpm
2m Cache



17" Dell CRT Re-Certified
Grade A Condition
Black 0.274pi



\$255.00
\$79.00
\$58.00
\$63.00
\$65.00

Intel P4-531 64Bit Ready

(3.0GHz, 1M44, HT, 800FSB, 1M L2 Cache)
512M DDR 400 Memory
Asus P4M94-V Motherboard
120G SATA 7200rpm 8m Hard Drive
1.44m Floppy Drive
Integrated Intel Graphics 900
16X DVD +/- RW Drive
400W Tower Case w/ Front USB
Integrated Lan
onboard 8-channel HD audio Optical Mouse, Keyboard, Speakers Included

\$635.00

Intel Celeron D 2.4G (320D) 533FSB

256M DDR Memory
ASRock P4VM9
80G EIDE 7200rpm 2M Hard Drive
1.44m Floppy Drive
Integrated VIA Chipset Graphic
52X CDRW Drive
350W Front USB Tower Case
Integrated Lan
onboard 6-channel audio
Optical Mouse, Keyboard, Speakers Included

\$365.00

AMD Athlon 64 3200+ 939pin

512M DDR 400 Memory
Asus ABN-E
120G SATA 7200rpm 8m Hard Drive
1.44m Floppy Drive
ATI X300 SE 128M DVI TV-Out PCI-E VGA735.00
16X DVD +/- RW Drive
400W Front USB Tower Case
Integrated Lan
onboard 8-channel HD audio
Optical Mouse, Keyboard, Speakers Included

\$735.00

AMD Sempron 2500

256M DDR 333 Memory
ASRock K7V3M 5359.00
80G EIDE 7200rpm 2M Hard Drive
1.44m Floppy Drive
Integrated VIA Chipset
16X DVD Rom Drive
350W Front USB Tower Case
Integrated Lan
onboard 4-channel audio
Optical Mouse, Keyboard, Speakers Included

\$359.00

Please call / visit our web site for
Ownership can be Transferred.

• Our Weekly Special Promotion
• Off Lease Desktop, Laptop and Monitors

• Dell Open Box Desktop and Laptop, Dell Manufacture Warranty ,

* All custom built systems comes with 1 year part and 3 years labour warranty. * Operating System * Optional

ecshop.ca
Computer . Home Entertainment

ecshop www.ecshop.ca Tel: (416)-803-2230
email: sales@ecshop.ca

Address: 550 Hwy 7 east, Unit B 56 Richmond Hill, Ontario, L4B 3Z4
(Times Square, North West Corner of Hwy 7 / Leslie Street, beside TD Bank, Corner of Leslie St. Entrance)

Store Hours
Mon-Fri 10:00 - 7:00
Sat 11:00 - 6:00
Sun 12:00 - 5:00



905.944.1691

2650 John St., Unit #9, Markham ON L3R 2W6 www.ameta.ca 1.877.966.1691

A member of



EYEONET DVR

Leading Technologies:

POS (Point of Sale) Interface

Door Access Control

Cell Phone View

Central Management Softwares:

Manage Multi DVRs, 32, 64, 128...Channels



Total Solutions for Home & Business Digital Video Surveillance



DVR Server



Stand Alone DVR



Video Door Phone



Mobile DVR



PTZ



Wireless



Dome



ELZ Inc. Computer Services

www.elzinc.com7800 Woodbine Ave. Unit 103
Markham. Ontario. L3R 2N7

Tel: 905.940.1818 Fax: 905.940.9763

AMD Sempron VALUE!!



AMD Sempron 2500+	Intel Celeron 2.66GHz (D330)
ECS 741XG-M M/B	Foxconn 661FXME-E M/B
256MB DDR400 PC-3200	256MB DDR400 PC-3200
Integrated 2D/3D Graphics	Integrated 2D/3D Graphics
40GB 7200RPM HDD	40GB 7200RPM HDD
52X IDE CDROM	52X IDE CDROM
1.44MB Floppy	1.44MB Floppy
Integrated 6-CH Sound & Lan	Integrated 5.1-CH Sound & Lan
Case w/400W PSK/B/Mouse/Spk	Case w/400W PSK/B/Mouse/Spk
Upg to Sempron 2600 \$17	Upg to Celeron 2.8GHz \$ 20
Upg to 16X DVD RW \$38	Upg to 80GB HDD \$ 14 \$ 299

AMD Sempron EXTREME



AMD Sempron 2600+	Intel Pentium 4 3.0GHz (530)
Foxconn K75741MG-GL M/B	Asus P5GD1-VM M/B
512MB DDR400 PC-3200	512MB DDR400 PC-3200
ATI Radeon 9250SE 128MB	Integrated 2D/3D Graphics
80GB 7200RPM HDD	80GB 7200RPM HDD
52x32x52x CDRW Drive	52x32x52x CDRW Drive
1.44MB Floppy	1.44MB Floppy
Integrated 5.1-CH Sound & Lan	Integrated 8-CH Sound & Lan
Case w/400W PSK/B/Mouse/Spk	Case w/400W PSK/B/Mouse/Spk
Upg to 16GB DDR \$ 29	Upg to P4 3.2GHz (540) \$ 55
Upg to 16X DVD +/- RW \$ 25	Upg to P4 3.4GHz (550) \$130 \$ 535

AMD Athlon 64 EXTREME



AMD Athlon 64 2800+	Intel Pentium 4 3.0GHz (530)
Asus K8S-MX M/B	Asus P5GD1 M/B
512MB DDR400 PC-3200	512MB DDR400 PC-3200
Integrated 2D/3D Graphics	Integrated 2D/3D Graphics
80GB 7200RPM SATA HDD	80GB 7200RPM SATA HDD
52x32x52x CDRW Drive	52x32x52x CDRW Drive
1.44MB Floppy	1.44MB Floppy
Integrated 5.1-CH Sound & Lan	Integrated 8-CH Sound & GB Lan
Case w/400W PSK/B/Mouse/Spk	Case w/400W PSK/B/Mouse/Spk
Upg to Athlon 64 3000 \$ 46	Upg to 160GB SATA HDD \$32
Upg to Athlon 64 3200 \$ 98	Upg to 200GB SATA HDD \$55 \$ 635

All prices are already 4% cash discounted and subject to change without notice.**All systems come with 3 years labour and 1 year parts warranty.**

Hard Drive

Intel (Asus)

Monthly Promotion

IDE	7200	SATA	IDE	7200	SATA	Intel (Asus)	Logitech Webcam Orbit (OEM)	\$ 85
Maxtor			PSRD1-V	\$ 119		PSRD1-V	WD 160GB 7200RPM IDE OEM	\$ 91
40GB	\$ 59		PSPB00	\$ 115		PSPB00	Sunbeam Samura Case w/o PS	\$ 45
80GB	\$ 67		PSPB005	\$ 87		PSPB005	JJPhone VoIP Adapter/Phone	\$ 70 / 87
80GB (8M)	\$ 72	\$ 74	PSGD1 / VM	\$ 124 / 120		PSGD1 / VM	MPX 512MB MP3/Video/Rec/FM	\$ 127
120GB	\$ 79		PSGD2-X / VM	\$ 157 / 129		PSGD2-X / VM	Samsung ML-1520 Laser Printer	\$ 128
120GB (8M)	\$ 85	\$ 90	PSGXL	\$ 115		PSGXL	Canon PIXMA iP2000 Printer	\$ 55
160GB (8M)	\$ 96	\$ 103	PSGL-MX	\$ 90		PSGL-MX	Samsung 915N 19" LCD BLK 8MS	\$ 460
200GB (8M)	\$ 125	\$ 137	P4VPM-X	\$ 58		P4VPM-X	Acer AL1913B 19" LCD BLK 20MS	\$ 355
200GB (16M)	\$ 116	\$ 124	PS4800 / MX	\$ 67 / 71		PS4800 / MX	LG LT50S 17" LCD BLK 12MS	\$ 269
250GB (8M)	\$ N/A	\$ 143	PS4800D-X	\$ 71		PS4800D-X	LG 52x CDROM	\$ 18
250GB (16M)	\$ 145	\$ 151	PS4800X-MX	\$ 59		PS4800X-MX	Sony 52x CDROM	\$ 17
300GB (16M)	\$ 189	\$ 195	AMD (Asus)			K8N	Asus 52x CDROM	\$ 16
40GB (8M)	\$ 65		K8N-E Deluxe	\$ 89		K8N-E Deluxe	LG 16x DVDROM	\$ 26
80GB	\$ 66		K8N4-E Deluxe	\$ 138		K8N4-E Deluxe	LG 52x3x2x52x CDRW	\$ 28
80GB (8M)	\$ 69	\$ 71	K8S-MX	\$ 79		K8S-MX	Asus 52x3x2x52x CDRW	\$ 28
120GB	\$ N/A		K8V-X	\$ 93		K8V-X	LG 52x3x2x52x CDRW	\$ 28
120GB (8M)	\$ 83	\$ 89	K8V	\$ 101		K8V	Pioneer A109 16DV +/- RW	\$ 64
160GB (8M)	\$ 91	\$ 96	AV8 Deluxe	\$ 112		AV8 Deluxe	Sony D22A 16x DVD +/- RW	\$ 60
200GB (8M)	\$ 115	\$ 124	A7N8X / E	\$ 91 / 109 / 109		A7N8X / E	BenQ 1620Pro 16x DVD RW	\$ 54
250GB (8M)	\$ 139	\$ 145	A7V880	\$ 81		A7V880	BenQ 1640 16X DVD +/- RW	\$ 58

Optical Drive

LG 52x CDROM	\$ 18
Sony 52x CDROM	\$ 17
Asus 52x CDROM	\$ 16
LG 16x DVDROM	\$ 26
LG 52x3x2x52x CDRW	\$ 28
Asus 52x3x2x52x CDRW	\$ 28
LG 52x3x2x52x Combo	\$ 44
LG 4163 16x DVD +/- RW	\$ 53
Pioneer A109 16DV +/- RW	\$ 64
Sony D22A 16x DVD +/- RW	\$ 60
BenQ 1620Pro 16x DVD RW	\$ 54
BenQ 1640 16X DVD +/- RW	\$ 58

Video Card

Asus GF FX-5200 128 M	\$ 57
Asus GF FX-6200 PCIE 128 M	\$ 124
Asus GF FX-6600 PCIE 128 M	\$ 150
Asus GF FX-6500 PCIE 255 M	\$ 169
Asus GF FX-5200 128 M	\$ 50
MSI GF FX-5500 256 M	\$ 115
MSI GF FX-6200 128 M	\$ 89
MSI GF FX-6600 256 M	\$ 208

VISIT WWW.ELZINC.COM OR CALL
FOR MORE PRODUCTS AND PRICES.We open Monday to Friday 10 am - 7 pm
Saturday 11 am - 6 pm Sunday Closed

Good As New Computers

Compaq P4 PACKAGE

PENTIUM 4 - 2.4GHz
256MB SDRAM
40GB HDD, CD Drive
INT SOUND, VIDEO, NIC
17in 'A' MON(Not Shown)
WINDOWS 2000 PRO.

\$479.00

Refurbished, 90 day warranty

Compaq P4 PACKAGE

SFF - PENTIUM 4 1.7GHz
256MB SDRAM
20GB HARD DRIVE
CD, INT SOUND, VIDEO
17in 'A' MON.(Not shown)
WINDOWS 2000 PRO.

\$399.00

Refurbished, 90 day warranty

IBM P3 PACKAGE

PENTIUM 3 - 866MHz
128MB SDRAM
20GB HARD DRIVE, CD
INT HIG, SOUND, VIDEO
17" Grade "A" MONITOR
WINDOWS 98SE
Keyboard, Mouse, Power cord.

\$199.00

Refurbished, 90 day warranty

DELL SFF

P3 1000
128MB, 20GB
CD, FDD, NIC
WIN2000Pro
\$209.00

Refurbished, 90 day warranty

DELL

P3 1.2GHz
256MB, 20GB
CD, FDD, NIC
WIN2000Pro
\$239.00

Refurbished, 90 day warranty

IBM

P3 800
128MB, 10GB
CD, FDD, NIC
WIN98SE
\$169.00

Refurbished, 90 day warranty

HP

P3 650MHz
128MB, 20GB, CD
WIN98SE
\$139.00

Refurbished, 90 day warranty

Dell

P3 1GHz
256MB, 20GB
CD, NIC, 50GB
WIN2000Pro
\$599.00

Refurbished, 90 day warranty

IBM

P3 700MHz
256MB, 120GB
DVD, NIC
WIN2000Pro
\$449.00

Refurbished, 90 day warranty

21" Flat Monitors

COMPAQ
\$99.00

Refurbished, 90 day warranty

17" Monitors

Tier 1
Brand
From
\$29.99

Refurbished, 90 day warranty

15" Monitors

Tier 1
Brand
From
\$19.99

Refurbished, 90 day warranty

88 East Beaver Creek Rd.

Unit 6A, Richmond Hill, ON, L4B 4A8

Tel: 905-889-1188

HOURS:

Mon - Fri 10:00am - 6:00pm
Sun & Sat CLOSED

Shop online
www.ganc.com

Sound that truly surrounds

The acoustics of home theatre

I wonder how many good sound systems are returned because of bad room acoustics.

Bad acoustics can turn a perfectly good sound system into a muddy mess that favours certain frequencies over others. This is not the "flat" frequency response audiophiles are looking for, where all frequencies are represented equally, and it may have nothing to do with the fabulous surround sound system you dropped the kid's college fund on. It may be ... you.

Acoustics is where you get to participate in the actual design of your own sound system. That said, there are a few basic issues you need to tackle to make your home theatre the envy of all who gaze upon it.



ACETEC COMPUTERS

848 Burnhamthorpe Rd W Unit 3B, Mississauga, Ontario, L5C 2S3

Tel: 905-276-3891 Fax: 905-281-9992

Email: sales@acetecpc.com

AMD Sempron2500 \$275

AsRock (ASUS) K7V3, DDR256M
40G 7200rpm H.D, L5G2xCDROM
Video, LAN & Sound Onboard
ATX 450W Midtower/USB Front
Keyboard, Mouse & Speakers
Upgrade to: LG 52ZC2RW \$12
Sempron 2600/2800 +\$16/29

Celeron 2.4GHz \$297

AsRock (ASUS) P4VME, DDR256M
80G 7200rpm, L5G2x2x52CDRW
Video, LAN & Sound Onboard
ATX 450W Midtower/USB Front
Keyboard, Mouse & Speakers
Celeron 2.4GHz/2.6/2.8 +\$16/26
P4-2.4/2.6 8G 11B +\$65/11B

Back to School \$509

Intel P4-530 3.0G 1M LGA775
ASUS P5GL-MX, DDR400 512M
80G 7200rpm, LG 16xDVD+/-RW
Intel Graphic, Sound, LAN OB
ATX 450W Case/ USB Front
Keyboard, Mouse & Speakers
Intel P4 3.2G LGA775 +\$48

AMD 64 3000+ \$769

ASUS A8N-E, 160G SATA 8M
OCZ Dual Chan DDR400 1024M
LG4163 16xDVD+/-RW Dual Layer
Sound Alar/ 0/1
CF 6200 256M/TVO/DVI PCI-E
ATX 450W Case/ USB Front
Keyboard Mouse & 2.1 Speakers
Athlon 64 3200/3500 +\$53/149

iPod

iPod shuffle
iPod Mini

ASUS S-presso

Call us for Details

All systems come with 2 years labor & 1 year

MONITOR LG 710B8 Flat Screen \$124

17" Samsung 730DF Flat CRT \$129

17" Direction Widescreen LCD \$125

17" Samsung 715T 500-1 \$125

17" LG L1750S 16ms 550-1 LCD \$129

17" Samsung 710N 12ms 600-1 \$130

15" Acer 1915SB 800-1 LCD \$135

OPTICAL DRIVE/RW DRIVERS
LG 16X/DVD/CDRW COMBO \$42

LG CS4145B 16x DVD+/-RW \$56

Eltel Web Cam \$9

PC-Tracking Cam 640x480 \$16

Extreme Game \$1239

Intel P4-640T 3.2G 2M/800MHz

ASUS P5GL-Deluxe, IEEE 1394

OCZ Dual Chan DDR400 533 1GB

Seagate 250GB 8M SATA H.D.

LG 4163 DVD+RW, Wireless LAN

Nvidia GF6400 PCI-Ex 256M

GB LAN & 2.8chan Sound 0/8

Gaming Case 450W/16xDVD

Logitech Cordless OPTI LX700

Creative Multimedia Speakers \$307.36 \$179.65 0T 3.4G \$1399

P5 Express 3.2G \$849

Intel P4-3.2G P540 1M LGA775
ASUS P5D-M, Dual ChanDDR400 1G
200G SATA H.D, L5G4163 16xDVD+/-RW
ATX 600W Pro PCI Express 256M
8 Chan Sound, GB LAN Onboard,
ATX Case/ USB Front/ 450W
Keyboard, Mouse & 2.1 Speakers
P4-530 3.4G LGA775 +\$75

parts warranty

VIDEO CARD

ATI 9250E 128M TVO

ATI 9550 128M/256M DVI TVO \$69/79

Leadtek CF6200 128M TV+SP \$99

NVIDIA GF6600PCIE 256M TV/DVI\$169

ATI 9300 Pro 256M

\$209

NVIDIA GF6800PCIE 256M TV/DVI\$385

NETWORKING

Realtek 10/100 PCI LAN

\$7

PC/PCI/ISA IEEE 1394

\$16/19

D-Link 524 Wireless Router

AE \$32

D-Link G510 PCI Wireless

AE \$29

D-Link E660 PCMCIA WLAN

AE \$32

Early Reflections

Early reflections are sounds that bounce off an object very shortly after you hear the direct sound from the speaker. These can cause something called "comb filtering," where certain frequencies get cancelled out due to phase cancellation. Phase cancellation is when the trough of a wave matches the crest of another and they cancel each other out. Also, early reflections can affect the image of the sound or where it is perceived to originate from. Any reflection less than 28 feet can be considered an early reflection.

Reverberation

The length of time a room bounces sound around is called reverberation time. A "live" room has a long reverberation time and a "dead" or "dry" room has a short one. Reverberation is affected by the materials used in a room's construction as well as the size of the room. Reverberation time is measured by how long it takes a sound to drop 60 decibels (RT60) after the original sound has stopped. In a normal sized living room, there should be no more than 4/10ths of a second reverberation time, and no less than 2/10ths of a second. That's a pretty dead living

LAPTOP STORE
E22 PACIFIC MALL
T: 905 4151182
11-8, 7 DAYS

Kennedy
Pacific Mall.
E22
Steels Ave. W W W . N O T E B O O K O U T L E T . C A

2000 COMPUTERS

Steels Ave
Tempo Ave
Finch Ave

PC STORE
3560 VICTORIA
PARK AVE.
T: 416 4921600

 LG Electronics

AUTHORIZED DEALER

 FUJITSU

LG XNOTE Ls50

INTEL DO THAN 1.6GHz,
256MB RAM, 40G HD,
DVD-CDRW COMBO,
802.11 WLAN
,56K MODEM, 10/100 LAN,
15" XGA TFT Screen,
Windows XP HOME \$1188⁹⁹

LG Xnote Ls50

INTEL DO THAN 1.6GHz,
512MB RAM, 60B HD
DVD BURNER,
802.11B/G WLAN
56K MODEM, 10/100 LAN
15" XGA TFT SCREEN
WINDOWS XP HOME \$1388⁹⁹

LG Xnote Lm50

INTEL CENTRINO 1.5GHz,
512MB, 40G HD
DVD-CDRW COMBO,
802.11B/G WLAN
ATI RADEON 9200
15" XGA TFT, 56K M, 10/100 LAN
WIN XP Pro. \$1588⁹⁹

LG Xnote Lw60

INTEL DO THAN 1.73GHz,
512MB RAM, 60G HD
SUPER MUTI DVD,
802.11B/G WLAN
56K MODEM, 10/100 LAN
15.4" WXGA CRYSTAL TFT,
ATI X300 64MB,XPP \$2088⁹⁹

LG Xnote Lw70

INTEL DO THAN 1.86GHz,
1024MB RAM, 80G HD
SUPER MUTI DVD,
802.11B/G WLAN
56K MODEM, 10/100 LAN
17" WXGA CRYSTAL TFT,
ATI X300 128MB,XPP \$2888⁹⁹

LG XNote Lu20

INTEL DO THAN 1.6GHz,
512MB RAM, 40G HD,
802.11 WLAN
56K MODEM, 10/100 LAN,
3.5LB, 6-HR BATTERY
FREE DVD-CDRW COMBO
Windows XP PRO. \$1388⁹⁹

LG Xnote Lt20

INTEL DO THAN 1.5GHz,
512MB RAM, 40G HD,
802.11 WLAN
56K MODEM, 10/100 LAN,
12" XGA TFT SCREEN
3.9LB, 6-HR BATTERY
WIN TABLET EDITION \$1888⁹⁹

FUJITSU T4010

INTEL CENTRINO 1.6GHz,
512MB RAM, 40G HD,
802.11 WLAN,DVD-CDRW
56K MODEM, 10/100 LAN,
12" XGA TOUCH SCREEN,
WIN TABLET EDITION \$1988⁹⁹

FUJITSU T3010

INTEL CENTRINO 1.4GHz,
256MB RAM, 40G HD,
802.11 WLAN
56K MODEM, 10/100 LAN,
12" XGA TOUCH SCREEN,
WIN TABLET EDITION \$1688⁹⁹

FUJITSU N6010A

INTEL P4 3.2GHz,
512MB RAM, 60G HD,
DVD-CDRW COMBO
802.11A/B/G WLAN
56K, GIGABIT LAN, ATI 9700 128MB
17" CRYSTAL WXGA, 1.44 FLOPPY
AFTER \$100 REBATE \$1948

FUJITSU E8010D

INTEL CENTRINO 1.6GHz,
256MB RAM, 80G HD,
FREE TO 512MB RAM
802.11G WLAN
56K MODEM, 10/100 LAN,
15" XGA TFT Screen,
XPP, 3YR \$1888⁹⁹

FUJITSU N3510A

INTEL DO THAN 1.73GHz
512MB DDR2 RAM,
60G HD, 802.11G WLAN
DVD-CDRW COMBO,
56K MODEM, 10/100 LAN,
15.4" CRYSTAL XGA TFT, XPH
ATI REDEON X300 64MB \$1588⁹⁹

FUJITSU S6231A

INTEL DO THAN 1.6GHz,
512MB RAM, 40G HD,
DVD-CDRW COMBO,
802.11G WLAN
56K MODEM, 10/100 LAN,
13.3" CRYSTAL XGA TFT, 4.3LBS
WINDOWS XP HOME (AFTER \$75 REBATE) \$1688⁹⁹

FUJITSU C2330

INTEL DO THAN 1.7GHz,
512MB RAM, 40G HD,
DVD-CDRW COMBO,
802.11B/G WLAN
56K MODEM, 10/100 LAN,
15" CRYSTAL XGA TFT, 1.44 FLOPPY
WINDOWS XP HOME \$1588⁹⁹

FUJITSU C2310

INTEL DO THAN 1.6GHz,
512MB RAM, 40G HD,
DVD-CDRW COMBO,
802.11B/G WLAN
56K MODEM, 10/100 LAN,
15" CRYSTAL XGA TFT, 1.44 FLOPPY
WINDOWS XP HOME \$1488

*\$100 COUPON WITH PURCHASE OF ANY LAPTOPS!!*SOME FUJITSU LAPTOP WITH FREE Mp3 PLAYER!

ACER ASPIRE 3502NLCI

INTEL CELERON M 1.4GHz,
256MB RAM, 40G HD,
DVD-CDRW COMBO,
802.11B/G WLAN
56K MODEM, 10/100 LAN,
15" XGA TFT SCREN
LINPUS LINUX \$748⁹⁹

ACER ASPIRE 1684WLMI

INTEL DO THAN 1.8GHz,
1024MB RAM, 100G HD,
DVD BURNER,
802.11B/G WLAN
56K MODEM, 10/100 LAN,
15.4" CRYSTAL XGA TFT,
WINDOWS XP \$1588⁹⁹

Acer ASPIRE 1362LCI

INTEL SEMPRON 2800+
512MB RAM, 40G HD,
DVD-CDRW
802.11G WLAN
56K M, 10/100 LAN,
15" XGA TFT SCREN
WINDOWS XP \$788⁹⁹

ACER TABLE C303XMI

INTEL DO THAN 1.7GHz,
1024MB RAM, 80G HD,
DVD BURNER,
802.11B/G WLAN
56K M, 10/100 LAN, BLUETOOTH
14" XGA TOUCH SCREEN
WIN XP TABLET EDITION \$1988

ACER FERRARI 4000

AMD TURION 64 ML-37
1G RAM, 100G HD,
DVD BURNER,
802.11B/G WLAN
56K M, GIGABIT LAN, BLUETOOTH
15.4" WXSXA+ TFT, ATI X700 128MB,
WINDOWS XP PRO. \$2288

HP NC4000

INTEL CENTRINO 1.4GHz,
256MB RAM, 40G HD,
FREE TO 512MB RAM,
56K M, GIGABIT LAN,
12" XGA TFT, 3LBS
3 YR WARRANTY \$1288⁹⁹

HP NC4010

INTEL CENTRINO 1.7GHz
512MB RAM, 40G HD,
802.11A/B/G WLAN,
56K M, GIGABIT LAN,
12" XGA TFT, 3LBS
3YR, XPP. \$1588⁹⁹

HP NC8000

INTEL CENTRINO 1.6GHz,
512MB RAM, 60G HD,
802.11A/B/G WLAN,
DVD BURNER,
56K M, GIGABIT LAN,
15" XGA TFT, 3YR
ATI 9600, XPP \$1988⁹⁹

COMPAQ PRESARIO R3215CA

AMD ATHLON XP-M 2800+
512MB RAM, 60G HD,
DVD BURNER,
802.11B/G WLAN
56K MODEM, 10/100 LAN,
15.4" WXGA TFT, XPH
NVIDIA 4TM 420 \$1288⁹⁹

COMPAQ NC6000

INTEL DO THAN 1.7GHz
1024MB RAM, 80G HD,
DVD-CDRW COMBO,
802.11B/G WLAN
ATI RADEON 9600
56K MODEM, 10/100 LAN,
14" XGA TFT, 3Y WARRANTY
WINDOW XP PRO \$1888

FUJITSU P7010

INTEL CENTRINO 1.1GHz,
256MB RAM, 40G HD,
DVD-CDRW
802.11G WLAN
56K MODEM, 10/100 LAN,
10.6" WXGA CRYSTAL, XPP
\$1788⁹⁹

IBM T42

INTEL CENTRINO 1.7GHz,
512MB RAM, 40G HD,
DVD-CDDR
802.11 WLAN
56K MODEM, 10/100 LAN,
14.1" XGA TFT, XPP, 3YR
ATI 7500 32MB \$1588⁹⁹

IBM R40

INTEL DO THAN 1.5GHz,
512MB RAM, 40G HD,
DVD-CDRW COMBO,
802.11 WLAN
56K MODEM, 10/100 LAN,
15" XGA TFT, XPP
ATI 7500 32MB \$1388⁹⁹

TOSHIBA TECRA M2

INTEL DO THAN 1.8GHz,
512MB RAM, 60G HD,
DVD-CDRW COMBO,
802.11G WLAN
56K MODEM, 10/100 LAN,
14" XGA TFT, XPP, 3YR
NVIDIA 5200 64MB \$2188⁹⁹

TOSHIBA P10

INTEL P4 3.2GHZ,
512MB RAM, 80G HD,
DVD BURNER,
802.11G WLAN
56K MODEM, 10/100 LAN,
15.4" CRYSTAL WXGA TFT, XPMC
ATI 9700 64MB \$1988

LOWEST P4

 INTEL P4 2.4G
(1MB, NOT CELERON)

256MB DDR RAM
40GB HD 7200
16X DVD-ROM
32MB AGP VIDEO
1.44 FLOPPY
3D SOUND
10/100 ETHERNET
P4 ATX CASE/400W
10/100 ETHERNET
P4 ATX CASE/300W
\$399

ADVANCE

 AMD 64BIT3000
(ALTHON 64 BIT)

256MB DDR RAM
40GB HD 7200
16X DVD-ROM
64MB DDR VIDEO
1.44 FLOPPY
5.1 3D SOUND
10/100 ETHERNET
P4 ATX CASE/400W
WINDOWS KB
WHEEL MOUSE
STEREO SPEAKER
Included
17" TFT LCD
\$699

BEST BUY

 INTEL P4 3.0GHz
(1MB L2 CACHE)

256MB DDR RAM
80GB HD 7200
16X DVD ROM
52X32X52 CD-RW
64MB DDR EXAGP VIDEO
1.44 FLOPPY
5.1 3D SOUND
10/100 ETHERNET
P4 ATX CASE/400W
WINDOWS KB
WHEEL MOUSE
STEREO SPEAKER
Included
17" TFT LCD
\$799

SUPER FAST

 AMD 64BIT3200+
(ALTHON 64 BIT)

512MB DDR RAM
120GB HD 7200
16X DVD ROM
16X CD BURNER
GEFORCE 256MB FX5500 VEDIO
TV OUT
1.44 FLOPPY
5.1 3D SOUND
10/100 ETHERNET
P4 ATX CASE/400W
WINDOWS KB
WHEEL MOUSE
600W SUBWOOFER
Included
19" TFT LCD
\$1199

NEXT CENTURY

 INTEL P4 3.2GHz
(FSB 800MHz, 1 MB)

1024MB DDR400 RAM
160GB HD 7200
16X DVD BURNER
16X DVD ROM
ATI RADEON X600 PCI-E
256MB VIDEO/TV OUT
1.44 FLOPPY
5.1 3D SOUND
10/100 ETHERNET
P4 ATX CASE/400W
INTERNET KB
OPTICAL MOUSE
Included 1000W SUBWOOFER
19" TFT LCD
\$1399

CANADIAN WEB HOSTING

www.caewebhosting.com

Spam & Virus Email Filters
30 day Money Back Guarantee
All Prices in Canadian Dollars

Site Builder Creation Tool
Choose from
10,000 professional templates

BASIC PLAN

- > Cpanel Control Panel
- > 100 Meg storage
- > 5 GB transfer/month
- > 10 Email Accounts
- > 5 MySQL Databases

\$4.95*
/month

WINDOWS PLAN

- > HELM Control Panel
- > 500 Meg storage
- > 20 GB transfer/month
- > 10 Email Accounts
- > DSN/MSSQL Server
- > ASP/ASP.NET

\$26.95*
/month

Virtual Private Servers

- > Full Root Access
- > Compile Your Own Programs
- > Remote Reboot Access
- > RedHat Linux

From ** \$65.40
/month

White Label Resellers

- > Cpanel WHM
- > Private Name Servers
- > Dedicated IP Addresses
- > Host Your Customers' Websites
- > Ideal for web designers, developers and VARS

From ** \$85.00
/month

All packages have no setup fee and are based on Yearly Plan.
** Check website for more details

CWH

CANADIAN WEB HOSTING

C A N A D A

Toll Free

1 - 888 - 821 - 7888

www.caewebhosting.com

room, but not one that is completely suffering from rigor mortis. But why would you want such a dead room when you sound so great singing "Mirror in the Bathroom" by the English Beat in front of a highly sound reflective mirror in a highly reverberant bathroom? Well, certain types of music sound better in reverberant rooms, but speech is always easiest to understand in a dead room.

Room Modes or Standing Waves

Standing waves, otherwise known as room modes, are the resonant frequencies of your particular listening space. They can make a certain frequency overly loud or too quiet and "colour" a room. Every cavity has a resonant frequency and if you have a rectangular room you have three: One for the length of the room, one for the width and one for the height. These are called the axial modes, which are the strongest and cause the largest variation in sound. Frequencies above 300 Hz get overwhelmed by other acoustical effects and don't cause noticeable variations. Room modes only affect bass. One thing to watch out for is a room that has dimensions that are a multiple of any other dimension. Say you have an eight-foot ceiling. You don't want a room that is 16 feet wide and 24 feet long because these are multiples of eight.

Getting the Best Sound

There are two options: either absorb sound or diffuse it. To tackle early reflections, take a mirror and have someone move it around the room, flat against the wall, while looking at it from the listening position. When you can see the reflection of any of the front speakers, you know you've found an early reflection point. Either put something to break up the sound there, like a piece of furniture, or add some sound absorbent

material. Also, diffuse the back wall reflections with a bookcase or some other irregular object.

To deal with the floor reflections, add a carpet. Ceiling reflections can be dealt with by coffering, if possible. Big, puffy chairs do a good job of absorbing sound too. All these things assist with decreasing reverberation time as well as reducing reflections.

The trickiest thing to deal with is room modes. If you can afford it, bass traps are the best solution for this. If not, put the bass speaker in the listening position and walk around the room. Stop where it sounds neither boomy nor muddy and trade positions with the speaker. That's the best position for it to be. All in all, room acoustics is an immensely complex topic worthy of a tome or eight. Hopefully, this article has pointed you down the right path.

By Andrew Carruthers

More Acoustics Information

hyperphysics.phy-astr.gsu.edu/hbase/acoustic/auditcon.html
www.audioholics.com/techtips/setup/index.php
www.saecollege.de/reference_material/index.html

HASFFTRONICS

Back To School Specials!!!



4981 Highway 7 E, unit 10, Markham, On, L3R 1N1.

Tel: 905-480-9795 WWW.HASFF.COM SALES@HASFF.COM

BURLINGTON	MISSISSAUGA	NORTH YORK	HAMILTON
4190 Fairview St. (905) 333-6637	400 Dundas St. E. (905) 281-0204	3300 Steeles Ave. W. (416) 760-0745	ST. CATHARINES OAKVILLE

WINTRONIC

www.wintroniccomputers.com

WE CAN BEAT ANY ADVERTISED PRICE

REFURBISH
MONITOR 17"
\$49
MONITOR 21"
\$119

Wholesale and Retail
New & Used Computers, Notebooks & Parts
Visit www.wintroniccomputers.com for latest Systems, Notebook and Parts prices and information.

HOT DEALS**AMD 2.80GHz Sempron****\$259**

- Mid-Tower ATX Case 155W

- 256MB Ram, - 40 GB HDD

- Integrated 32MB 3D Video

- 1.12 Floppy, Keyboard, Mouse,

- Speaker Network Card 10/100

IBM Thinkpad
P4-1.8 GHz
Refurbished Notebook
40GB HD, 256MB Ram
DVD/CDRW, Flippy, 56K, LAN, 14" TFT
\$799

IBM Thinkpad
P3-1.0 GHz
Refurbished Notebook
20GB HD, 128MB Ram
DVD, Sound
56K/1024, 14" TFT, WIN98
\$549

IBM Thinkpad
P3-800 MHz
Refurbished Notebook
20GB HD, 128MB Ram
DVD, Sound
56K/NIC, 14" TFT, WIN98
\$449

IBM Thinkpad
Centrino 1.6 GHz
Refurbished Notebook
151MB, 40G, MO, DVD/CDRW, Intel
Intel 82.11 wireless
56K, Gigabit LAN, 14.1" TFT, WIN98
\$1099

IBM Thinkpad
Intel 1.6 GHz
Refurbished Notebook
256MB, 200G, CD ROM
LAN, 14.1" TFT, Win XP Pro
\$799

P4-2.0GHz
Compaq EVO
Refurbished Tower
40GB HD, 256MB Ram
CD, Flippy, Sound
Video, NIC 10/100
\$329

P4 - 2 GHz
IBM Refurb Desktop
40GB HD, 256MB Ram
CD, Flippy, Sound
Video, NIC 10/100
\$299

P3-1Ghz
Refurbished Desktop
20GB HD, 128MB Ram
CD, Flippy, Sound
Video, NIC 10/100
\$139

Dell P-800 MHz
Refurbished Tower
10GB HD, 128MB Ram
CD, Flippy, Sound
Video, NIC 10/100
\$149

P4-1.7Ghz
Refurbished Desktop
20GB HD, 256MB Ram
CD, Flippy, Sound
Video, NIC 10/100
Win XP Pro
\$279

NEW LAPTOPS

Asus (Wintronic) Z91
Intel M 725 centrino 1.4GHz, 512MB DDR,
60GB, DVDRW, 15.4" TFT, 56K, 802.11b, XP Pro
\$1149

Asus (Wintronic) M68N
Intel M 725 centrino 1.4GHz, 512MB DDR, 60GB,
DVDRW, 15.4" TFT, 56K, 802.11b, Gigabit LAN
\$1649

Asus (Wintronic) Z91
Intel M 725 centrino 1.4GHz, 512MB DDR, 60GB,
DVDRW, 15.4" TFT, 56K, 802.11b, XP Home
\$1249

Asus (Wintronic) M68N
Intel M 725 centrino 1.4GHz, 512MB DDR, 60GB,
DVDRW, 15.4" TFT, 56K, 802.11b, XP Home
\$1249

GAMMER CHOICE

Case Antec SX1 0400II P4 Mid Tower w/ front USB
CPU AMD Athlon 4000
Motherboard Asus ABV deluxe socket 939
Memory (RAM) Samsung 512MB DDR 400MHz
Hard Drive 100GB IDE 7200 RPM
Video Card ATI 6600/7000 128MB
Optical Drive LG 16x Dual Layer DVD+RW
Network 10/100 Ethernet Card
Sound 5.1 Channel Sound Integrated

Speakers Creative SBS 350 2.1 speakers
Keyboard Microsoft Internet Keyboard
Mouse Microsoft Optical Mouse
Display Monitor not included
Warranty 1 year
Optional 5 year
Optional 1 year
Optional 2 Add 17" LCD Monitor \$279
Optional 3 AMD Athlon 4000 \$1239

\$1099


**17" SVGA
MONITOR
Perfect Flat**
\$99

**Microsoft
Keyboard/Mouse
Optical**
\$35

**17" LCD
MONITOR**
\$289

DVD WRITER
\$55

DVD CASE
100 PACK
\$15

CD CASE
100 PACK
\$15

CD CASE
100 PACK
\$15

**MULTIMEDIA
SPEAKER**
15W PAIR
\$5

**KEYBOARD &
MOUSE
Combo**
\$10

VIDEO CARD
**ATI RADEON
128/128**
\$45

**WIRELESS-G
LINKSYS**
4 Port Router
\$69

**WIRELESS-G
Microsoft**
4 Port Router
\$49

**WIRELESS-G
Microsoft**
PCMCIA NIC
\$39

**WIRELESS-G
Microsoft**
PCMCIA NIC
\$39

**MEMORY
256MB
DDR400**
\$35

**COLOR
PRINTER**
Lexmark Z315
\$39

**_SOUND
BLASTER**
LIVE 5.1
\$35

**ATX CASE
MID TOWER**
Front USB
\$29

**Blank DVD
Media**
50/100 Spindle
\$9/18

**Blank DVD
Media**
25/50 Spindle
\$10/20

**Blank DVD
Media**
25/50 Spindle
\$10/20

**Hard Drive
Maxtor 80GB
7200 RPM**
\$65

**USB EXTERNAL
HD ENCLOSURE**
USB 2.0
\$30

**USB EXTERNAL
CD ENCLOSURE**
USB 2.0
\$35

**USB TO
SERIAL
CONVERTER**
\$15

USB PCI
4 PORT
\$15

HARD DRIVE
**WD 20GB
8MB Cache**
\$119

HARD DRIVE
**WD 160GB
8MB Cache**
\$95

**NETWOK
10/100 Ethernet Card**
\$7

**DISEQC
SWITCH**
4 LNB
\$10

**DISEQC
SWITCH**
4 LNB
\$89

**SATELLITE
FINDER**
DISH 33"
\$19

**SATELLITE
FINDER**
DISH 33"
\$49

**FTA
DigiWave
7000**
\$109

**FTA
DigiWave
7000**
\$109

**PANSAT FTA
RECEIVER
COMPATIBLE**
\$99

**KVM
SWITCH**
2 PORT
\$29

**P4 ECS
Motherboard**
PM800-M2
\$49

**AMD ECS
Motherboard**
741GX-M
\$49

**P4 ASUS
Motherboard**
P4S800-MX
\$69

**AMD ASUS
Motherboard**
A7V400-MX
\$65

**NETWORK
HUB**
5 PORT
\$19

All Prices are already 3% cash discounted. Prices and Specifications subject to change without notice. Not responsible for any type errors.

videogames. Though videogames have long been synonymous with overweight couch potatoes, that stereotype is changing thanks to the emergence of a new genre of "fitness gaming" that actually helps people burn calories and get in shape.

Yourself!Fitness

One of the pioneers of the genre is ResponDesign's Yourself!Fitness, which is available for the Microsoft Xbox, Sony PlayStation 2 and PC.

In Yourself!Fitness you'll meet a virtual personal trainer named Maya. After prompting you for the desired length and difficulty level, she'll take you through a workout by performing the exercises on-screen, complete with music, warm-up, cool-down and water breaks, which you can follow along with at home in the comfort of your den or living room.

Instead of well-worn exercise tapes where the workout is exactly the same every time, Maya will give you a different workout each session, drawing from more than 500 different exercises (including yoga and pilates). You can even tell Maya what equipment you have at home, such as stability ball, hand weights or step bench, and she will integrate that into the workout as well.

As well as one-time workouts, you can also work with Maya on long-term fitness goals in the areas of upper or lower body strength, cardio, core, or flexibility. She will suggest a workout schedule based on the results of a 20-minute fitness evaluation, and can even set up a complete weekly meal plan for you using a database of more than 4,500 different healthy recipes.

AA Electronics
(905)206-0931
WWW.AA-E.COM

CCD CAMERAS

Systems Best Price Guarantee

30/120 fpu up to 16 cameras, software included in Canada with Canadian license
From **\$75.00**

23-3540 125.00 1/3 Sony CCD 480 TV line Day/Night 10M
BandPass Speaker Boxes 500W (86-3012) **\$65.00**
400W (86-3010) **\$55.00**

87-828 Home Theater Speakers Front Speakers Sat Subwoofer Box 180W **\$125.00 pair**

50-4860 Aluminum Frame Handy Tool Box **\$25.00**

87-828 Home Theater Speakers 100W & 2 Rear 50W 2Way Bass Reflex **\$75.00 3pcs**

50-1000 100W High Quality 64% Shielded **\$45.00**

33" EagleStar dish + Eaglestar Free to Air Satellite Receivers = **\$125.00**
18"20"33" 39" Dishes & Accessories Available

WEEKLY SPECIALS
WHOLESALE PRICES AVAILABLE

1350 Matheson Blvd Mississauga, Unit #8 L4W 4M1 TEL (905)206-0931

Yourself!Fitness lets you work out whenever you want, even outside normal gym hours. The PC version can be installed on a laptop to take Maya along on the road.

Of course, as great as Maya is, she can never truly replace having a real fitness instructor there beside you. One of the most valuable things about working with a real person is that you get feedback. If you're performing an exercise incorrectly, the instructor will fix your technique, both to make sure you use your time efficiently and, most importantly, to prevent you from injury.

Dance Dance Revolution

Although very different from Yourself!Fitness, Dance Dance Revolution (DDR) is another game that will make you work up a healthy sweat while playing.

This dancing game was a huge hit in the arcades before coming to the home as Dance Dance Revolution Extreme and DDRMAX: Dance Dance Revolution for the PlayStation 2 and Dance Dance Revolution Ultramix for the Xbox.

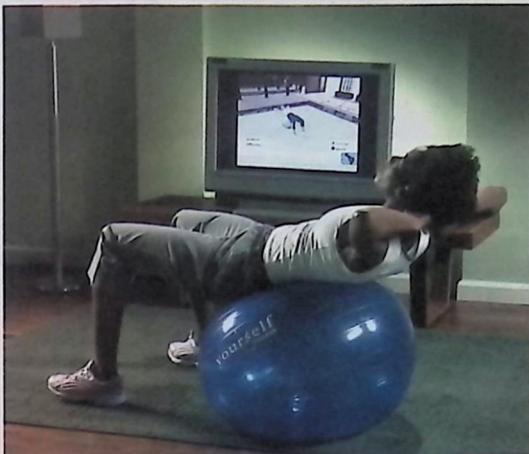
The home versions use a special dance mat instead of a traditional controller. There are four arrows on the dance pad, and the idea is to step on the arrows with your feet to match the corresponding arrows that are scrolling by on the screen as music plays in the background.

The more difficult the songs get, the more intricate and quick the footwork is, not only providing a fun workout for your leg and core muscles, but an excellent cardiovascular workout as well.

Success stories of people shedding enormous amounts of weight playing DDR have been well-documented (check out www.getupmove.com). The game's workout mode even measures how many calories the player is burning with each song.

The games cost between \$30 and \$50 – the equivalent of just one or two months at the average gym.

By Erin Bell



GO GO COMPUTER

\$ 289
AMD sempron 2600+
Biostar M7V1G-400
256MB DDR400
64M VIDEO (SHARED)
40GB 7200RPM HDD
52X CD-ROM
1.44 Floppy Drive
Sound & Lan onboard
front USB CASE/ KB/Mouse/SPK

\$ 559
AMD Athlon 64 3200+ (754)
ASUS K8N
512MB DDR400 PC3200 RAM
RADEON 9250 128M TVO
160GB 7200RPM HDD
16X DVDRW +/- DL
1.44 Floppy Drive
Sound & Lan onboard
front USB CASE/ KB/Mouse/SPK

\$ 799
AMD Athlon 64 3200+ (939)
ASUS A8V E Deluxe (939)
1GB DDR 400 (Dual)
X600 PRO 256M (PCI-E)
200GB SATA HDD ATA 150
16X DVDRW +/- DL
1.44 Floppy Drive
Sound & Lan onboard
front USB CASE/ KB/Mouse/SPK

\$ 849
\$ 949
AMD Athlon 64 3200+
AMD Athlon 64 3500+
UPG: ASUS ABN-SLI DX

\$ 379
AMD sempron 2600+ (754)
ASUS K8V-X
256MB DDR400
RADEON 9250 128M TVO
80GB 7200RPM HDD
52X32X52 CDRW
1.44 Floppy Drive
Sound & Lan onboard
front USB CASE/ KB/Mouse/SPK

\$ 639
AMD Athlon 64 3200+ (939)
Gigabyte K8N-F 9 (939)
512MB DDR400 (Dual)
X300 SE 256M (PCI-E)
160GB SATA HDD ATA 150
16X DVDRW +/- DL
1.44 Floppy Drive
Sound & Lan onboard
front USB CASE/ KB/Mouse/SPK

\$ 829
AMD Athlon 64 3200+ (939)
ASUS ABN E (939)
1GB DDR 400 (Dual)
ASUS EN6600 TD 256M (PCI-E)
200GB SATA HDD ATA 150
16X DVDRW +/- DL
1.44 Floppy Drive
Sound & Lan onboard
front USB CASE/ KB/Mouse/SPK

\$ 879
AMD Athlon 64 3200+
INEXO 54M Wireless Router
INEXO 54M PCI Wireless Card
SB Audigy 2 Value PCI SC OEM

Hard Drive
IDE MAXTOR W.D. SATA

40GB \$59
80GB \$69
160GB \$97 (8M) \$95 (8M)
200GB \$119 (16M)
250GB \$139 (16M) \$135 (8M)
300GB \$169 (16M)
400GB \$199 (16M)

30X 10K-SATA WD
74X 10K-SATA WD
40GB FUJISU 2.5" 5400
60GB FUJISU 2.5" 5400

Radeon 9250/128M DDR TVO
Radeon 9250/128M DDR TVO

Radeon X300 PRO 256M (PCI-E)
Radeon X300 PRO 256M (PCI-E)
Radeon X700 PRO 256M (PCI-E)
ATI ALLWIN X600 PRO 256M

WINFAST TV 2000 XP EXPERT
CD/DVD/ RWriters

LG 16X DVDRW/BLACK
LG 282X2X28 CDRW/BLACK

LG 16X DVDRW +/- RW 16X DL
Pioneer 16X DVDRW +/- RW DW-26A DL

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

1024 DDR 400 DUAL Kingston
1024 DDR 400 DUAL OCZ

512 DDR 400 PC3200 Kingston
512 DDR 400 DUAL Kingston

<p

Business Directory

Call 416-348-9666 to place your Ad here

MOTOPHOTO

2674 Yonge Street, Toronto, ON

Tel: 416.489.3620 www.motophoto.ca

- Archive Your Home Videos and Movies to DVD
- Archive Your Records & Audio Tapes to CD
- Nonlinear DVD Editing and Authoring
- Archive Digital & Optical Photo Printing
- Digital Portraits and PhotoCD Photos
- Quality Frames, Albums, Film, and Batteries

新資訊

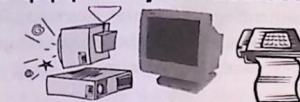
BHEC

Telecom Services Co.

Computer Recycling Centre

We pay CASH \$\$\$ for your useless

- COMPUTERS
- MONITORS
- SCANNERS
- COPY MACHINES
- FAX MACHINES



Please Note: only large number of items accepted for recycling.

For more information, please contact us at:

Toronto Area
(905) 470-7125

Vancouver Area
(604) 276-9088

1stDataRecovery.com

Start from \$95 Dead drive recovery \$300 (with this AD)

From dead, deleted, formatted, fdisked, corrupted, virus infected, passworded, CD, water & fire damaged, overwritten, inaccessible devices: hard drive, raid, zip, DVD, removable, optical, flash memory, tape, audio / digital image files ...

Forensic service

Windows / Mac / Unix / NetWare

16 Years of Quality Service

Data back as little as 24 hrs.



Toll Free: 1-877-460-3670

Business hours: M-F:10 am - 7 pm Sat: 11 am - 5 pm ET

157 Adelaide St. W, Suite 172, Toronto, ON M5H 4E7
1050 W. Pender St. Suite 745, Vancouver, BC V6E 3S7
info@1stDataRecovery.com www.1stDataRecovery.com

Back to school SALE

SUPER SAVERS!

P3 450+15" Monitor \$99
P3 733+17" Monitor \$169
P3 866+19" Monitor \$189
P3 16H+19" Monitor \$219
Monitor Specials!

15" from \$ 25, 17" from \$ 35
19" from \$ 45, 21" from \$ 65

Pentium 4 PC's from \$ 299

Pentium 3 Notebooks from \$ 349

Pentium 2 Notebooks from \$ 199

Laser Printers from \$ 35

- ✓ Buy / Tradein used PC's
- ✓ PC Repairs & Upgrades
- ✓ Home & Office Networking
- ✓ Recycling PC equipment

COMPUPOINT Inc

www.compupoint.ca

17, 21 Progress Ave, Scarborough, M1P 4S8, Email: info@compupoint.ca

Tel: 416 754 4812

INK & TONER SUPPLY

For Ink-Jet & Laser Printer / Copier Cartridges

Up to
80% Savings!
On-site services &
Delivery are available



✓ Ink & Toner Cartridges Refill

✓ Compatible Ink Cartridges

✓ Ink Refill Kits

✓ Fax Films

Toronto

Mississauga

Call: (416) 822-0918

Call: (905) 275-8988

Address: 50 Weybright Court, Unit 43
(Midland & Sheppard)

Business Hours: Mon. - Sat. 12:00noon - 6:00pm

Address: 505 Queensway E., Suite 10E
(Queensway & Cawthra)

Business Hours: Mon. - Sat.: 10:00am - 6:00pm

Transfer your Videos & Old Films to DVD

- Broadcast Linear & Non Linear Editing
- Standards Conversions (NTSC/PAL/SECAM)
- Advanced DVD Authoring services for Motion Picture Films
- 8 & 16mm Films, Photos & Slides to Video or DVD
- Audio, Video, CD & DVD Duplication
- Professional Video Taping for Corporate & Television Productions
- High Definition Video/VGA Projector Rental

DVD

Overseas Video Lab (416) 244-1822
1359 Wilson Ave, Toronto, Ontario
www.overseasvideolab.com

Since 1980

http://www.supersolutions.com

905-886-6399 info@supersolutions.com

E-commerce Solutions
Software Development
Graphic and Logo Design
Database Applications
Advertising Design & Production
Secure Server Integration

WEB DEVELOPMENT

SUP solutions

Online Encyclopedias

Encyclopaedia Britannica Online

www.britannica.com

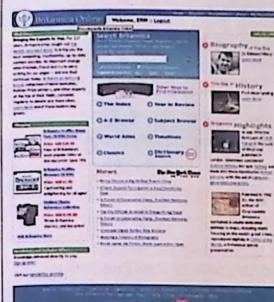
Cost: US\$11.95 per month; US\$64.95 per year

Good:

- Easy to navigate
- Extensive tables and sidebars

Bad:

- Somewhat weak on world content
- Pricey



The Britannica Premium online reference service incorporates articles from the 32-volume Encyclopaedia Britannica, the Britannica Student Encyclopaedia, and the Britannica Concise Encyclopaedia. The Web site is easy to navigate, and free of advertising save for a one relatively unobtrusive sidebar linking to Britannica CD-ROM products. The search function displays lists of articles with the option of limiting a search to a particular encyclopedia, or restricting it to multimedia, videos, magazines or Web sites.

Each entry is displayed along with a sidebar of related con-

tent, including maps and flags, images, video and multimedia content, related articles, and Web sites – some are more relevant than others, but all seem to be culled from reputable and useful sources as opposed to unfiltered Internet spam. Larger topics (like Ontario) are broken into smaller topics that can be navigated from a sidebar (Northern Ontario, Southern Ontario, The people, The economy). In a nice touch, the bottom of the article displays the correct way to cite it in a bibliography, giving the option of MLA, APA and Britannica formats.

The database contains decent North American content (24 pages devoted to New York, 17 pages devoted to Ontario), but is weaker on world content, where info can be much sparser (one page on the entire country of Laos.)

World Book Online Reference Center

www.worldbookonline.com

Cost: US\$3.95 for three days; \$9.95 per month; \$49.95 per year

The ad-free main search page of the World Book Online Reference Center is a portal to a wealth of information including news headlines, monthly features, "Today in History", and an atlas. The articles themselves – all 25,000 of them – are reprinted from the 22-volume World Book print edition and augmented by 20,000 pictures and audio clips and about 13,000 historical articles from past Work Book yearbooks.

The articles are very easy to navigate, containing text integrated with

LAPTOP BLOW OUT SALE

• COMPAQ, IBM TECHNICIAN • NOTEBOOK REPAIR • FREE ESTIMATE •

We are notebook specialist!

•motherboard, LCD repair • password remove • data recover

IBM Thinkpad T20

P3-700 MHZ CPU
128 MB RAM
12GB HDD
DVD ROM
LAN/56K
Working Battery



\$375

IBM Thinkpad T22

P3-900 MHZ CPU
256 MB RAM
2GB HDD
DVD ROM
LAN/56K
Working Battery



\$475

Dell Latitude C610

P3-1GHZ CPU
256MB RAM
20GB HDD
CDRW
LAN/56K
Working Battey



\$499

Dell Latitude C400 Subnotebook

P3-1.2GHZ CPU
256MB RAM
20GB HDD
CDROM
LAN/56K



\$599

Compaq M700

P3-1GHZ CPU
256MB RAM
20GB HDD
DVDRW
LAN/56K
Working Battey



\$499

Toshiba Tec8000

P2-300 MHZ CPU
96 MB RAM
4-6GB HDD
CDROM
56K Modem
13.3TFTLCD



From \$199

HUNDREDS
LAPTOP PARTS
IN STOCK

Laptop Parts

PC-100 256MB	\$75
PC-133 256MB	\$65
DDR-266 256MB	\$45
DDR-333 512MB	\$80
DDR-333 1GB	\$175
DDR-400 1GB	\$175

17" Monitor from \$39

C.J. LAPTOP DEPOT

sales@cjaycomputers.com
www.cjaycomputers.com

321 COLLEGE ST. TORONTO 416-321-2911 416-9371537 11AM-7PM

YESA

cctv systems

DEALERS ONLY
CALL FOR CATALOGUES

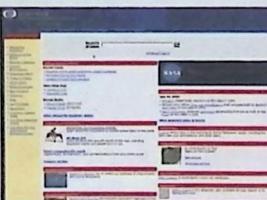
PROFESSIONAL 4, 9, 16 CHANNELS DVR, AND DVR BOARDS

North American Electronics

7860 Tranniere Dr. Mississauga, Ontario, Canada L5S 1L9
Tel: (905) 671-8797 (905) 282-1498 Toll Free: 1-888-220-9872
E-mail: Alicia@na-electronics.com Website: www.na-electronics.com

Good:

- Excellent academic resources
- Easy navigation
- Good multimedia integration
- Bad:**
- No MLA style bibliographies



that the province entered the Dominion.

Larger articles are organized into an information tree on the left-hand side for easy navigation.

Information on how to cite the article in a bibliography is included, but in only one format (it's unclear which style it is.)

Additionally, articles are accompanied by recommended suggestions for further investigating the topic, including book lists, other encyclopedia articles, and external Web links that take the user to reputable resources like newspaper articles and government- and University-affiliated Web sites.

multimedia content, such as an audio sample of how to pronounce the word, links to relevant maps, pictures, tables with interesting facts, and panoramic 360-degree views (that require a separate free download to take advantage of.) The tables in particular are excellent resources for interesting facts. In the entry for Ontario, for example, the relevant table contains facts like record high and low temperatures for the province, population density, and the date

MSN Encarta Premium

<http://encarta.msn.com>

Cost: US\$4.95 per month; US\$29.95 per year

Good:

- Extensive magazine article archive
- Bad:**
- Pages slow to load
- Cumbersome navigation
- Articles not always as in-depth

The collection of supplemental material in MSN's online encyclopedia is arguably the most valuable portion of the package, and includes a fairly extensive number of famous speeches, interviews with notable figures culled from a variety of sources, a historical archive of important events from 1938 to 1999, and a "Magazine Center" database of archived articles from more than 100 magazines and journals including Time, Maclean's, Business Week, PC Magazine and Harper's.

The articles themselves [which number approximately 45,000] have been contributed by various authors and academics, but there's also an "Edit this section" tool that lets anyone suggest changes to an article. This seems a little dubious despite the site's assertion that each entry or alteration goes through a rigorous fact-checking process by the staff before it's posted (as opposed to other open-contribution encyclopedias like Wikipedia.org, where changes are posted instantaneously.)

You can use the standard site search command to find articles, or browse them by delving into thematic categories grouped from general

EAT



\$9.95

Unlimited Internet Access It's a bright idea!

- No contract
- No prepayment
- No banner ads
- No busy signals
- Free activation
- Free e-mail support
- Free anti-spam and anti-virus email filtering
- Internet access in 1,073 cities in Canada



1-888-478-2733
\$9.95 per month plus taxes.

www.ideal-access.com

PREMIER CHOICE BRONZE

- EVGA 661FX-M7 for Intel Socket 770 CPUs or ECS 760GX4 for AMD Socket 754 CPUs
- Panasonic 3.5" - 144MB HD Flappy Disk Drive
- Maxtor 400G ATA-100 Hard Disk Drive @ 7200RPM
- 256MB DDR RAM, PC3200, 184Pin RAM Memory
- Economy Balance Mid-Tower 6 Bay ATX Case
- Enlight Mid-Tower Power Supply
- Logitech Cordless Mouse w/ 2 Fingers
- Port 8 - Bi-Directional Parallel Port
- On-Board AGP 3D Video w/ 64MB Buffer
- On-Board PCI Stereo Sound w/ Surround Sound
- Rockwell 56K Int. Voice/Fax/Modem v.92 (PCI)
- On-Board 10/100 PCI Full Duplex Network Adapter
- Fifty-Two Speed (52X) MaxE CD-ROM Drive
- Samsung 703DF 17" Digital 200dpi CRT Monitor
- Keytronik 104 Enhanced Soft-Touch Keyboard
- Altec Lansing 120 Amplified Stereo Speakers
- Microsoft Compatible PS2 Mouse w/ Mouse Pad
- MS Windows XP Home OEM w/ CD and Manual
- 5 Years Labour & 1 Year Parts Warranty

AMD Sempron 2600+ \$624.99 or \$23/mth

AMD Sempron 2800+ \$639.99 or \$24/mth

AMD Sempron 3100+ \$674.99 or \$25/mth

AMT Athlon 64 3000+ \$739.99 or \$27/mth

Intel Celeron D 330J \$779.99 or \$28/mth

Intel Celeron D 340J \$779.99 or \$28/mth

Intel Pentium 4 531+ \$779.99 or \$29/mth

Intel Pentium 4 541+ \$824.99 or \$30/mth

Intel Pentium 4 630+ \$834.99 or \$31/mth

Intel Pentium 4 640+ \$834.99 or \$31/mth

Intel Pentium 4 650+ \$834.99 or \$31/mth

Intel Pentium 4 670+ \$834.99 or \$31/mth

Intel Pentium 4 680+ \$834.99 or \$31/mth

Intel Pentium 4 700+ \$834.99 or \$31/mth

Intel Pentium 4 710+ \$834.99 or \$31/mth

Intel Pentium 4 730+ \$834.99 or \$31/mth

Intel Pentium 4 740+ \$834.99 or \$31/mth

Intel Pentium 4 750+ \$834.99 or \$31/mth

Intel Pentium 4 760+ \$834.99 or \$31/mth

Intel Pentium 4 770+ \$834.99 or \$31/mth

Intel Pentium 4 780+ \$834.99 or \$31/mth

Intel Pentium 4 790+ \$834.99 or \$31/mth

Intel Pentium 4 800+ \$834.99 or \$31/mth

Intel Pentium 4 810+ \$834.99 or \$31/mth

Intel Pentium 4 820+ \$834.99 or \$31/mth

Intel Pentium 4 830+ \$834.99 or \$31/mth

Intel Pentium 4 840+ \$834.99 or \$31/mth

Intel Pentium 4 850+ \$834.99 or \$31/mth

Intel Pentium 4 860+ \$834.99 or \$31/mth

Intel Pentium 4 870+ \$834.99 or \$31/mth

Intel Pentium 4 880+ \$834.99 or \$31/mth

Intel Pentium 4 890+ \$834.99 or \$31/mth

Intel Pentium 4 900+ \$834.99 or \$31/mth

Intel Pentium 4 910+ \$834.99 or \$31/mth

Intel Pentium 4 920+ \$834.99 or \$31/mth

Intel Pentium 4 930+ \$834.99 or \$31/mth

Intel Pentium 4 940+ \$834.99 or \$31/mth

Intel Pentium 4 950+ \$834.99 or \$31/mth

Intel Pentium 4 960+ \$834.99 or \$31/mth

Intel Pentium 4 970+ \$834.99 or \$31/mth

Intel Pentium 4 980+ \$834.99 or \$31/mth

Intel Pentium 4 990+ \$834.99 or \$31/mth

Intel Pentium 4 1000+ \$834.99 or \$31/mth

Intel Pentium 4 1010+ \$834.99 or \$31/mth

Intel Pentium 4 1020+ \$834.99 or \$31/mth

Intel Pentium 4 1030+ \$834.99 or \$31/mth

Intel Pentium 4 1040+ \$834.99 or \$31/mth

Intel Pentium 4 1050+ \$834.99 or \$31/mth

Intel Pentium 4 1060+ \$834.99 or \$31/mth

Intel Pentium 4 1070+ \$834.99 or \$31/mth

Intel Pentium 4 1080+ \$834.99 or \$31/mth

Intel Pentium 4 1090+ \$834.99 or \$31/mth

Intel Pentium 4 1100+ \$834.99 or \$31/mth

Intel Pentium 4 1110+ \$834.99 or \$31/mth

Intel Pentium 4 1120+ \$834.99 or \$31/mth

Intel Pentium 4 1130+ \$834.99 or \$31/mth

Intel Pentium 4 1140+ \$834.99 or \$31/mth

Intel Pentium 4 1150+ \$834.99 or \$31/mth

Intel Pentium 4 1160+ \$834.99 or \$31/mth

Intel Pentium 4 1170+ \$834.99 or \$31/mth

Intel Pentium 4 1180+ \$834.99 or \$31/mth

Intel Pentium 4 1190+ \$834.99 or \$31/mth

Intel Pentium 4 1200+ \$834.99 or \$31/mth

Intel Pentium 4 1210+ \$834.99 or \$31/mth

Intel Pentium 4 1220+ \$834.99 or \$31/mth

Intel Pentium 4 1230+ \$834.99 or \$31/mth

Intel Pentium 4 1240+ \$834.99 or \$31/mth

Intel Pentium 4 1250+ \$834.99 or \$31/mth

Intel Pentium 4 1260+ \$834.99 or \$31/mth

Intel Pentium 4 1270+ \$834.99 or \$31/mth

Intel Pentium 4 1280+ \$834.99 or \$31/mth

Intel Pentium 4 1290+ \$834.99 or \$31/mth

Intel Pentium 4 1300+ \$834.99 or \$31/mth

Intel Pentium 4 1310+ \$834.99 or \$31/mth

Intel Pentium 4 1320+ \$834.99 or \$31/mth

Intel Pentium 4 1330+ \$834.99 or \$31/mth

Intel Pentium 4 1340+ \$834.99 or \$31/mth

Intel Pentium 4 1350+ \$834.99 or \$31/mth

Intel Pentium 4 1360+ \$834.99 or \$31/mth

Intel Pentium 4 1370+ \$834.99 or \$31/mth

Intel Pentium 4 1380+ \$834.99 or \$31/mth

Intel Pentium 4 1390+ \$834.99 or \$31/mth

Intel Pentium 4 1400+ \$834.99 or \$31/mth

Intel Pentium 4 1410+ \$834.99 or \$31/mth

Intel Pentium 4 1420+ \$834.99 or \$31/mth

Intel Pentium 4 1430+ \$834.99 or \$31/mth

Intel Pentium 4 1440+ \$834.99 or \$31/mth

Intel Pentium 4 1450+ \$834.99 or \$31/mth

Intel Pentium 4 1460+ \$834.99 or \$31/mth

Intel Pentium 4 1470+ \$834.99 or \$31/mth

Intel Pentium 4 1480+ \$834.99 or \$31/mth

Intel Pentium 4 1490+ \$834.99 or \$31/mth

Intel Pentium 4 1500+ \$834.99 or \$31/mth

Intel Pentium 4 1510+ \$834.99 or \$31/mth

Intel Pentium 4 1520+ \$834.99 or \$31/mth

Intel Pentium 4 1530+ \$834.99 or \$31/mth

Intel Pentium 4 1540+ \$834.99 or \$31/mth

Intel Pentium 4 1550+ \$834.99 or \$31/mth

Intel Pentium 4 1560+ \$834.99 or \$31/mth

Intel Pentium 4 1570+ \$834.99 or \$31/mth

Intel Pentium 4 1580+ \$834.99 or \$31/mth

Intel Pentium 4 1590+ \$834.99 or \$31/mth

Intel Pentium 4 1600+ \$834.99 or \$31/mth

Intel Pentium 4 1610+ \$834.99 or \$31/mth

Intel Pentium 4 1620+ \$834.99 or \$31/mth

Intel Pentium 4 1630+ \$834.99 or \$31/mth

Intel Pentium 4 1640+ \$834.99 or \$31/mth

Intel Pentium 4 1650+ \$834.99 or \$31/mth

Intel Pentium 4 1660+ \$834.99 or \$31/mth

Intel Pentium 4 1670+ \$834.99 or \$31/mth

Intel Pentium 4 1680+ \$834.99 or \$31/mth

Intel Pentium 4 1690+ \$834.99 or \$31/mth

Intel Pentium 4 1700+ \$834.99 or \$31/mth

Intel Pentium 4 1710+ \$834.99 or \$31/mth

Intel Pentium 4 1720+ \$834.99 or \$31/mth

Intel Pentium 4 1730+ \$834.99 or \$31/mth

Intel Pentium 4 1740+ \$834.99 or \$31/mth

Intel Pentium 4 1750+ \$834.99 or \$31/mth

Intel Pentium 4 1760+ \$834.99 or \$31/mth

Intel Pentium 4 1770+ \$834.99 or \$31/mth

Intel Pentium 4 1780+ \$834.99 or \$31/mth

Intel Pentium 4 1790+ \$834.99 or \$31/mth

Intel Pentium 4 1800+ \$834.99 or \$31/mth

Intel Pentium 4 1810+ \$834.99 or \$31/mth

Intel Pentium 4 1820+ \$834.99 or \$31/mth

Intel Pentium 4 1830+ \$834.99 or \$31/mth

Intel Pentium 4 1840+ \$834.99 or \$31/mth

Intel Pentium 4 1850+ \$834.99 or \$31/mth

Intel Pentium 4 1860+ \$834.99 or \$31/mth

Intel Pentium 4 1870+ \$834.99 or \$31/mth

Intel Pentium 4 1880+ \$834.99 or \$31/mth

Intel Pentium 4 1890+ \$834.99 or \$31/mth

Intel Pentium 4 1900+ \$834.99 or \$31/mth

Intel Pentium 4 1910+ \$834.99 or \$31/mth

Intel Pentium 4 1920+ \$834.99 or \$31/mth

Intel Pentium 4 1930+ \$834.99 or \$31/mth

Intel Pentium 4 1940+ \$834.99 or \$31/mth

Intel Pentium 4 1950+ \$834.99 or \$31/mth

Intel Pentium 4 1960+ \$834.99 or \$31/mth

Intel Pentium 4 1970+ \$834.99 or \$31/mth

Intel Pentium 4 1980+ \$834.99 or \$31/mth

Intel Pentium 4 1990+ \$834.99 or \$31/mth

Intel Pentium 4 2000+ \$834.99 or \$31/mth

Intel Pentium 4 2010+ \$834.99 or \$31/mth

Intel Pentium 4 2020+ \$834.99 or \$31/mth

Intel Pentium 4 2030+ \$834.99 or \$31/mth

Intel Pentium 4 2040+ \$834.99 or \$31/mth

Intel Pentium 4 2050+ \$834.99 or \$31/mth

Intel Pentium 4 2060+ \$834.99 or \$31/mth

Intel Pentium 4 2070+ \$834.99 or \$31/mth

Intel Pentium 4 2080+ \$834.99 or \$31/mth

Intel Pentium 4 2090+ \$834.99 or \$31/mth

Intel Pentium 4 2100+ \$834.99 or \$31/mth

Intel Pentium 4 2110+ \$834.99 or \$31/mth

Intel Pentium 4 2120+ \$834.99 or \$31/mth

Intel Pentium 4 2130+ \$834.99 or \$31/mth

Intel Pentium 4 2140+ \$834.99 or \$31/mth

Intel Pentium 4 2150+ \$834.99 or \$31/mth

Intel Pentium 4 2160+ \$834.99 or \$31/mth

Intel Pentium 4 2170+ \$834.99 or \$31/mth

Intel Pentium 4 2180+ \$834.99 or \$31/mth

Intel Pentium 4 2190+ \$834.99 or \$31/mth

Intel Pentium 4 2200+ \$834.99 or \$31/mth

Intel Pentium 4 2210+ \$834.99 or \$31/mth

Intel Pentium 4 2220+ \$834.99 or \$31/mth

Intel Pentium 4 2230+ \$834.99 or \$31/mth

Intel Pentium 4 2240+ \$834.99 or \$31/mth

Intel Pentium 4 2250+ \$834.99 or \$31/mth

Intel Pentium 4 2260+ \$834.99 or \$31/mth

Intel Pentium 4 2270+ \$834.99 or \$31/mth

Intel Pentium 4 2280+ \$834.99 or \$31/mth

Intel Pentium 4 2290+ \$834.99 or \$31/mth

Intel Pentium 4 2300+ \$834.99 or \$31/mth

Intel Pentium 4 2310+ \$834.99 or \$31/mth

Intel Pentium 4 2320+ \$834.99 or \$31/mth

Intel Pentium 4 2330+ \$834.99 or \$31/mth

Intel Pentium 4 2340+ \$834.99 or \$31/mth

Intel Pentium 4 2350+ \$834.99 or \$31/mth

Intel Pentium 4 2360+ \$834.99 or \$31/mth

Intel Pentium 4 2370+ \$834.99 or \$31/mth

Intel Pentium 4 2380+ \$834.99 or \$31/mth

Intel Pentium 4 2390+ \$834.99 or \$31/mth

Intel Pentium 4 2400+ \$834.99 or \$31/mth

Intel Pentium 4 2410+ \$834.99 or \$31/mth

Intel Pentium 4 2420+ \$834.99 or \$31/mth

Intel Pentium 4 2430+ \$834.99 or \$31/mth

Intel Pentium 4 2440+ \$834.99 or \$31/mth

Intel Pentium 4 2450+ \$834.99 or \$31/mth

Intel Pentium 4 2460+ \$834.99 or \$31/mth

Intel Pentium 4 2470+ \$834.99 or \$31/mth

Intel Pentium 4 2480+ \$834.99 or \$31/mth

Intel Pentium 4 2490+ \$834.99 or \$31/mth

Intel Pentium 4 2500+ \$834.99 or \$31/mth

Intel Pentium 4 2510+ \$834.99 or \$31/mth

Intel Pentium 4 2520+ \$834.99 or \$31/mth

Intel Pentium 4 2530+ \$834.99 or \$31/mth

Intel Pentium 4 2540+ \$834.99 or \$31/mth

Intel Pentium 4 2550+ \$834.99 or \$31/mth

Intel Pentium 4 2560+ \$834.99 or \$31/mth

Intel Pentium 4 2570+ \$834.99 or \$31/mth

Intel Pentium 4 2580+ \$834.99 or \$31/mth

Intel Pentium 4 2590+ \$834.99 or \$31/mth

Intel Pentium 4 2600+ \$834.99 or \$31/mth

Intel Pentium 4 2610+ \$834.99 or \$31/mth

to specific. However, topics generally don't have any organizational sidebar for quick navigation within a longer entry. Instead, the left side of the page is cluttered with suggested web links, quotations, and links to other parts of the site and multimedia content. For longer entries, there's no choice but to leaf through the entire document one page at a time – and given that the information is not densely packed, broader subjects generally require between 15 to 30 page-turns to get through.

Some topics are presented in "homepage" form, with organized links to topics and multimedia content, but why every article is not presented in this format is a mystery.

With links to Amazon.com to pass for "suggested reading" and links to MSNBC News for related news articles, Encarta is probably the most corporate and least academic of the encyclopedias in our roundup.

The Canadian Encyclopedia

<http://www.thecanadianencyclopedia.com> Cost: Free

For a more in-depth look at Canuck-centric topics, you can turn to the online Canadian Encyclopedia, a wonderful free resource that contains

Good:

Treats Canadian topics in-depth

Bad:

Ignores topics with no ties to Canada

the complete text of the Canadian Encyclopedia (in both English and French), the Junior Encyclopedia of Canada, the Encyclopedia of Music in Canada, and Maclean's magazine

archives – approximately 30,000 entries in all.

The search function displays pages of results grouped by the title of the article, and denotes which book it came from. You can narrow your search to a particular encyclopedia, and also specify a search for maps, pictures, video or audio media. There's no option to search by letter, but there is a subject index tree that groups topics by general to specific.

The pages are sparse and free of ads, and contain fun links to timelines, quizzes and "On this day in history" as well as abundant links to relevant related articles. Where applicable, articles are accompanied by video files and sound bytes; for example, the entry for pianist Glenn Gould has links to several excerpts of his piano recordings.

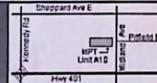
Just keep in mind, however, that this resource won't replace a traditional encyclopedia. Many important topics don't get a mention at all, and when they do, they are all dealt with in a Canadian context. The entry for China, for example, discusses such things as the migration of the Chinese to Canada, the various Cantonese opera houses in Canadian cities, and the history of political relations between Canada and China.

At the same time, it's the only encyclopedia where you can find entries for the Vancouver punk band D.O.A. or the Trailer Park Boys.

By Erin Bell

MPT

2370 MIDLAND Ave. Unit A10, Scarborough, ON, M1S 5C6
TEL: 416-292-0533 Hours: 10am-7pm Mon.-Fri., 10am-5pm Sat., closed Sunday
** prices are cash discounted and subject to change **
For more specials visit WWW.MPTCOMPUTERS.COM



Directions from Hwy 401:
- exit Kennedy Rd. NORTH
- Sheppard Ave. EAST
- 2370 Midland Ave.
turn right at 1st traffic light
#2370 Winco Business Park!
we are Unit# A-10



40GB Digital Photo Bank
- with 9-in-1 card reader
- high speed USB 2.0

\$189



40GB Multimedia Player
- playback video/audio/image
- supports most file formats

\$239



40GB MP3 Flash HD
- stores & plays MP3's
- with 9-in-1 card reader

\$269



!! BACK TO SCHOOL SPECIAL !!

Compaq / DELL (refurbished)
Intel P3-M 1.06Ghz Processor
14.1" Colour TFT 1024x768
256MB PC-133 SDRAM
20GB Hard Drive, CD/DVD
10/100 Ethernet, 56k modem
Windows 2000 Professional

from \$549



*other models available

ACER NOTEBOOK*

Intel Celeron-M 1.4Ghz Processor
15" Colour TFT 1024x768
256MB DDR-333 Memory
40GB HDD, CD-RW / DVD-ROM
Wireless LAN 802.11 b / g
10/100 LAN, 56k v.92 faxmodem
(operating system not included)

from **\$799**



MP3 car transmitter
- plug into any CD/MP3 player and listen through your car stereo speakers

\$19



MP3 car companion
- plug into any USB/flash media and listen through your car stereo speakers

\$59



512MB MP3 player
- w/ voice recorder
- also avail. w/FM
call for details

\$99



Notebook Carrying Case
* with shoulder strap *

\$19



Mini USB Optical Mouse
* Wireless *

\$26



PCMCIA Wireless NIC
(refurbished, 1yr warr.)

\$39



Cisco Training

WinNET Produced 106 CCIEs



Teja Suthar
CCIE # 8423, Telus



Ravi Chandran
CCIE # 8671, Telus



Shane Lal
CCIE # 10214, ICS



Terence Sommerville
CCIE # 8927, Infostream



Virginia Souders
CCIE # 9454, Bell Canada



Santosh Koshy
CCIE # 12029, BT



Darryl Coelho
CCIE # 11902, Bell Canada



S. Kannanendranraj
CCIE # 12417



Nigel Maharaj
CCIE # 9916, IBM Global Service



Hans Ma
CCIE # 10424, CAA



Kamran Adil
CCIE # 10373, Bell Nortex



Edwin Lukach
CCIE # 11263



Usman Mahmood
CCIE # 9500, Next Innovation



Giuseppe Giorgio
CCIE # 10422, Next Innovation



Balakrishnan Somasundaram
CCIE # 11904, Stergote



Kaushik Narayanan
CCIE # 12087, Telus



Edward Balca
CCIE # 11112



Garry Low
CCIE # 11433



Raj Thava
CCIE # 10425, Telus



Ganesh Shanmugalingam
CCIE # 10662, AT & T



Ahmed Khan
CCIE # 11140



Nadeem Akbar
CCIE # 11610



Faizan Siddiqui
CCIE # 11053



Amie Syed
CCIE # 12449



Craig Heniques
CCIE # 11110, Network Builder



Sunil Sepora
CCIE # 11942



Syed Mukhtar
CCIE # 11513



Sarwar Jamal
CCIE # 11562, Bell Canada



Zar Stareshki
CCIE # 11575, Telus



Smita Naikshikar
CCIE # 11031, Cisco



Vinod Nanthacumar
CCIE # 12030, Telus



Muhammad Shakti
CCIE # 12143



John Litsk
CCIE # 11517



Andra Julian
CCIE # 12142, Telus



Imran Taseer
CCIE # 12172, CQ



Abu Uddin
CCIE # 12158, Outsource IT



Kebon Persiar
CCIE # 12173, Bell Canada



Mohabb Alzam
CCIE # 12171, Compugen

Karim Shahzad
CCIE # 12088, EDS

More CCIEs

— Names and Numbers —

Lili Zhao, CCIE # 10352
Mohrad Mostafavi, CCIE # 10353
Sarumathy Vijayakumar, CCIE # 10355
Muhammad Asmir, CCIE # 11429
Harris Dhillon, CCIE # 11539
Felix Tric, CCIE # 11594
Lawrence Imeli, CCIE # 12000



The courses are designed by
HARITH

Triple CCIE - SP, Security & R/S
B.Sc. Eng., MIBM,CNE, MCSE, CCNP, CCDP, Cisco Security Specialist & Cisco Voice Specialist, MS Certified Trainer

CCNA

\$399

CCIE Theory / Lab

CCNP Module

\$599

CCIE Bootcamp

CCSP - PIX / VPN / IDS

BGP / ATM / Wireless

CCIP - QOS / MPLS

VOICE / IP Telephony

Visit the best CISCO lab in Toronto

- Over 400 Cisco Routers - 7500, 4500, 3600, 2600 & 2500
- ATM Switch, Catalyst 3550 and Pix Firewall
- ISDN lines, ADSL Line & Frame Relay Circuit
- Catalyst 5500, 5000 & 2900 Switches
- 30 CCIE pods, each includes 9 routers & 2 switches (3550)

WinNET SYSTEMS
HI-TECH TRAINING & CONSULTING

TORONTO
1200 Eglinton Ave. East, Suite 100, Toronto
(Don Mills & Eglinton)

Tel: 416.447.TEST (8378)

www.winnet.ca

Getting gear: Back to school computer buyer's guide

If you're getting ready to head back to school, and you're looking for a new computer to make the journey with you, you'll want to balance what you need with what you can afford, while still making sure you have room left over in your dorm to, you know, have a place to sleep. Here are a few tips:



The desktop option

The desktop computer has long been the most popular pick for students thanks to its relatively affordable price. There are a tonne of value-oriented desktop PCs out there that come loaded with lots of high-end components, especially when you start looking at computers made by some of the smaller builders.

If your main concerns are writing essays, surfing the Internet, and checking your email, you can get by with virtually any computer – none of these tasks are overly demanding, so you won't need the newest and fastest machine out there. That means you can opt for the model with the Celeron processor and only 256MB or 512MB of RAM. If you're really on a budget, you can get a complete system – including monitor – for around \$500 if you shop around.

Even with modest specs, you should still be able to watch DVD movies on the machine, as well as play your MP3 files. With a low-cost machine, though, your graphics capabilities may not be good enough to handle the current videogames, and your upgrade potential may be limited. You also won't find such a machine well-suited to photo or video editing, let alone graphics or design work, so if you're planning to be a multimedia baron, plan to spend a bit extra.

If your computing needs are going to be a bit more intensive, you're going to want to opt for more. For about \$750 you can start looking at systems with a full on Pentium 4 processor, but to get a good video card



Your Ultimate Source for Computer & Entertainment Accessories

www.Allway.ca

FSP Fanless 300W PSU
And Notebook Adaptor

Net Finder and
Keystone Jacks

Security Cameras



SATA and
Mobile Drive
Enclosures



For
Dealers
only

Allway Technologies (Ontario) Inc.

Tel: 905-477-0888 Fax: 905-477-0890 Toll Free: 1-888-563-9171
#8 - 200 Cochrane Drive, Markham, Ontario, Canada L3R 8E8

Allway Technologies Inc.

Tel: 604-232-3981 Fax: 604-232-3984 Toll Free: 1-888-633-5656
#5 - 3671 Viking Way, Richmond BC, Canada V6V 2J5

and a decent flat panel monitor, you're definitely going to want to budget between \$1,000 and \$1,500, at the very least. If you really want to get a top-notch gaming system that will play Quake 4 when it comes out, be prepared to invest even more.

If you're an Apple fan, the bad news is that the newest iMac line is pretty pricey thanks to the inclusion of a large LCD screen. The good news is that you can still get the CRT-based eMac, starting at around \$1,000. Even better news: if you already have a monitor, keyboard and mouse, the ultra-compact Mac Mini starts at just \$629. Neither of these options will provide you with the highest-end equipment – you're looking at a G4 processor between 1.33 and 1.42GHz. If you need that extra boost of power, the G5-based flat-panel iMac starts at \$1,599 for the 17-inch version.

The notebook option

If you think that notebooks are only an option if you've got gobs of cash at your disposal, think again. Many Windows-based notebooks are available for well under \$1,000. Also, if you're going to be living in a room where space is really tight, it may well be worth spending the extra money to get a notebook instead of a desktop computer, for a couple of reasons: First off, when you're done writing for the night, you can just fold up your computer and tuck it away under the bed. Also, if you're sharing quarters with someone who talks on the phone all day or blares the TV, you can take the notebook somewhere else to get some work done. And of course, you can take it to classes with you.

The same basic things apply when you're looking for a low-end notebook. As with value-oriented desktop machines, low-cost notebooks will have lower-end processors, like the mobile Celeron, and will feature pretty basic graphics components. Because of that, they'll be best suited for tasks like writing, surfing or checking email.

If that wasn't bad enough, notebooks have even more limited potential for upgrade; you can increase the RAM in some cases, or swap out the hard drive, but you're stuck with the motherboard, graphics card and screen for as long as you have the notebook. For that reason, it's smart to get the best you can afford, and then borrow a bit more so you can get something even better.

Unfortunately, the cost tends to really add up quickly when you're getting a notebook: for a machine that will double as your DVD player and play a few of the mid-level games, budget \$1,500 to \$2,000. Don't even think about buying a notebook that'll play the newest games unless you have cashola coming out of your you-know-what. As an example, the base-level Dell XPS game-friendly notebook is over \$2,800, and you can pump it up well over \$5,000.

Mac fans will have to pony up a bit extra for the 12-inch iBook, which starts at \$1,249. The good news is that it comes pre-loaded with the newest version of the OS, and features the iLife software bundle – in other words, hours and hours of GarageBand fun, the ability to play your DVDs and organize your photos, and tonnes more.

By Sean Carruthers



Best prices in the industry
Download at 4Mbps
Upload at 0.8Mbps!
500MB per attachment



Personal
DSL

Phone Service
VoIP

FASTER SPEEDS
LOWER PRICES!!

Speed	4032/800Kbps
Bandwidth Traffic	Unlimited
DSL Modem	Modem Included
Filters	2 Filters Included
Email Accounts	100
Virus Checker	Yes
Attachments	Send up 500MB
Email Storage	10GB
IP's Address	5 Dynamic IP's
Referral Program	Yes
Discount Store	Yes
Newspaper and Events	Yes
Download Area	Yes
Gaming	Yes
Community	Yes
Support	24 hours a day

From \$33.95/mo

VoiceMail Box's	Caller ID
Call Waiting	Call Forwarding
3-Way Calling	Call Transfer
Call Transfer	Caller ID Block
Call Return	Forward on Busy
Caller ID Block	Do not Disturb
Forward on Busy	International Rates
Do not Disturb	Detail Records
International Rates	Free fax Line
Detail Records	Free Long Distance
Free fax Line	Community Support

Why pay extra for voicemail service when it comes free with all of our plans..

- Caller ID with Name
- Call Waiting
- Area Code Selection
- Caller ID on Call Waiting
- Call Transfer
- Stamp up to 5000
- Voicemails
- Retrieve your messages by using Phone, Email, or the Internet

From \$16.95/mo

CALL: 1-866-583-8051

Connected: Photoshop CS 2

HUB's personal computing columnist Ray Richards recently sat down with Adobe's senior application developer Colin Smith to talk about the new version of Photoshop included in Adobe's imaging and publishing collection Creative Suite 2.

HUB: Colin, give us an idea of some of the new features you've developed for this version of Photoshop – for example, the one-click red-eye correction, which instantly eliminates this persistent photography problem.

Colin: Definitely, that's a beautiful feature. We actually stole that from Photoshop Elements and we created it just because of the ease of use that our customers have in that, our consumer level product. I just showed it last night to a bunch of [Photoshop] users and they just flipped out, I mean that's something people want – they want us to make it easy ...

HUB: So do you see more of these one click features being put into Photoshop?

Colin: Yes, and we definitely have, including something called the Spot Healing Brush tool – and that came again from Elements. We added the Healing Brush in Photoshop in previous versions and it required clicking in two places: clicking in an area that had good texture and then painting in an area with poor texture. But I guess that was too compli-

cated for some consumers. So we rolled it into one tool, the Spot Healing Brush, and it does kind of a randomizing pattern which is really good for things like, let's say you wanted to take a sprinkler out of a front lawn, you just simply brush over the sprinkler and it will grab grass from around the sprinkler and fill in that area for you.

HUB: What about Image Warp?

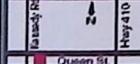
Colin: Oh, that's a tremendous feature. It's the same technique that we've had for warping text and we can now apply it to an image and it's really powerful because we can use the typical things we have in Photoshop [for text] like make it wave like a flag, but then you can also just manually move areas. So for instance, I extended a model's hair so that it was blowing in the wind a little bit more and I just grabbed it and started warping it and in the past that would have been a difficult job to do in Photoshop.

HUB: Well speaking of blowing in the wind, you also have animation in the application now.

Colin: Yeah, we're starting to move more of the features of Image Ready into Photoshop with the final goal of merging all of the Image Ready features into one application so we're just using Photoshop.

HUB: That's a really great idea.

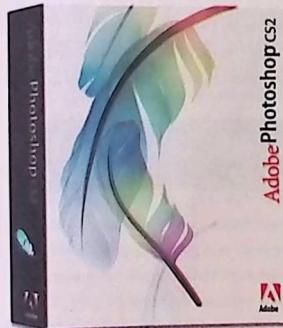
COMPUTER DEPOT

 17" LCD \$269 19" LCD \$349	 50 spindle CD-R 700mb \$8.99	 Ridata 8X DVD-R 50pcs \$25	 40GB HD \$55 80GB HD \$69 250GB \$169	 LG 16X DVD+RW \$59	 USB 2.0 HDD Enclosure. \$19	 MS wireless router+pcmcia \$89	 Mp3 +FM+USB 256MB \$59 512MB \$79	 512Mb Sandisk USB \$49	
UPGRADE BUNDLE									
			 ECS socket 478 mainboard Intel Celeron 2.4Ghz 533 3D video / sound / network ATX case with 350W PS NOW. ONLY. \$199	 ECS PM800 board 478 \$59	 ECS 661FX board 775 \$69	 MSI Fx5200 128MB AGP \$59	 AMD3400+A Board-CPU \$149	Now Only \$69	
			 256MB DDR3200 \$35 512MB DDR3200 \$55 1024MB DDR3200 \$109	 AMD Athlon 64Bit 3000+ \$189	 INTEL 775 P 4 3.0Ghz \$229	 ACER 3502 Laptop Intel Celeron M 1.3Gh 256MB DDRAM 40GB hard drive DVD/CD-RW drive 15" Wide Screen 64MB 3DVideoSound Integrated sound Wireless Network AC adapter/battery Windows XP +\$149 Free Headset w/ Mic Now Only \$749	DVD DUPLICATORS		
			 Mercury 4IN1 3.1Mpx Digital \$99	 Canon Printer IP2000 \$59	 Smart Eye Web cam \$19	 X-Blade Gamer Case \$79	 Mini Wireless SPY CAM	 1 to 3 1 to 7 \$509 \$989	
GREAT DEALS ON NEW SYSTEMS!!!									
					BRAMPTON (905) 455-8111 239 Queen St. E.				
					MISSISSAUGA (905) 804-1600 800 Dundas St. E. #B				
 									
Store Hour: Mon-Fri 10-8, Sat 10-6, Sun Closed www.computerdepotca.com									
Prices are subject to change without notice 3% already cash discounted									

Colin: Yeah, and you know that was just the fact that these applications were developed by different groups and we've benefited from that – there's been some great innovations in Image Ready that we're moving to Photoshop, and eventually the goal is to just move everything over. One app to do all your work.

HUB: Another new feature I was really impressed with was the new Vanishing Point tool, which allows you to dynamically clone areas of a photo and paint them into another area while retaining perspective.

Colin: Customers have been using cloning and painting for years, and any time they encounter an image with some level of perspective – let's say the side of a building or a sidewalk or a wooden deck, that you can



obviously see the change in image as it moves further away from the camera – things get smaller, and trying to clone is difficult because your clone brush is one size.

HUB: So you'd have to keep changing brush sizes.

Colin: Right, so now if you draw a three dimensional plane and vanishing point, for instance on a deck, as you

move that clone brush further from the camera it will get now get smaller and if you bring it closer it gets bigger. In fact, I show a demo when I work with customers where I take a deck and I remove a couple of objects from its surface. I can do it with Vanishing Point in under two minutes where before as a professional that job would take me two to three hours to try to clean up.

HUB: Another improvement that I've been looking for a long time for in Photoshop that Adobe has finally addressed is the change to the font menu.

Colin: Yep, that's been a big request for a long time to make the font menu a WYSIWYG menu. I've heard that request over the years and the old adage used to be "look, if you're a designer, you know what font you want." But most people now have so many fonts that we can't remember what they all look like.

HUB: Colin, thanks for speaking with us today.

Colin: It was my pleasure.

By Ray Richards

Sim Star

Mobile

**\$60 Rebate when you buy any Cell Phone
with new activation***

www.simstarmobile.com

Plan A
\$9.95/mth*
150 min.
Local Call
No Contract

Plan B
\$19.95/mth*
250 min.
Local Call
No Contract

Plan C
\$25.95/mth*
200 min.
Across Canada
No Contract

Plan D
\$35.95/mth*
300 min.
Across Canada
No Contract

*Some conditions apply

Nokia 8800 3230 6101 N91 N90

Panasonic X800 Sharp Sx813

Motorola mpx220 V3 V8

Samsung D500 E720 E730 Z300 Z500

SonyEricsson K750i Z800i W800

Dopod 575 585 Mini 02

Toronto Area
Pacific Mall

4300 Steeles Ave. E. #E75
(905) 470-7125

Richmond Empire Center

1455-4540 No. 3 Rd.
(604) 276-9088

Vancouver Area

Richmond Aberdeen Centre
2280-4151 Hazelbridge Way
(604) 276-8669

Burnaby Crystal Mall
1212-4500 Kingsway
(604) 436-9003

Cutting the wire

Cell phones and pay-as-you-go plans

When I purchased my very first cell phone, I found myself among a select club of early adopters who were regarded by those not so equipped as necessarily well-to-do. While status was not the reason behind my acquisition (I just love cool gadgets) it became readily apparent that people viewed me differently when I toted my new toy around.

Fourteen years and six handsets later, after finally becoming frustrated with the expense and the fact that seemingly everyone on the planet had access to my cell number (including a battalion of telephone solicitors), I decided to cancel my service. I figured if it was that important to get 'hold of me, they'd just leave a message.

This was, though somewhat irritating, ultimately ok with me; that is, until my car broke down on the highway, in a traffic jam, a heat wave and, as good fortune would have it, the fast lane. Suddenly my CAA card didn't seem particularly valuable, save as a fan.

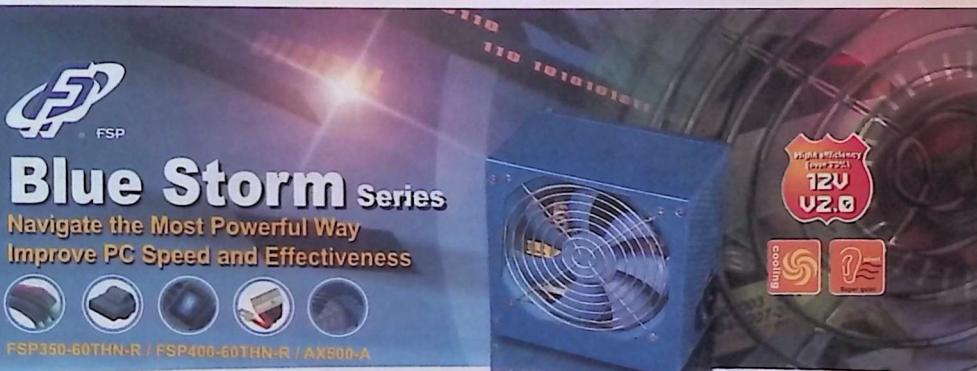
So, after a year of being phoneless, my resolve had finally broken and I determined to acquire a new mobile handset. My criteria was as follows:

- 1] The plan had to be inexpensive
- 2] The coverage must be excellent
- 3] The phone had to be cool

In my research I discovered that while there are a dizzying array of rate plans available, they defy adequate comparison. Eventually, however, I did come to understand that to reduce my monthly charges to a minimum, the best deals were to be had in the Pay as You Go plans now offered by every service provider. I decided to use the one measure they all had in common to gain perspective upon which to base my decision: the flat rate "anytime" per minute charge. (See table below.)

Given my coverage requirement and the fact that Virgin Mobile is only available in select cities, my choice from a pricing perspective became

Cellular Provider	Pay as You Go Rate Anytime Per Minute	Days Before Expiry	Minimum Purchase for this Plan
Bell Mobility	\$ 0.35	60 Days	\$25
Rogers Wireless	\$ 0.33	30 Days	\$10
Telus	\$ 0.33	60 Days	\$25
Fido	\$ 0.15	60 Days	\$30
Virgin Mobile	\$ 0.20	120 Days	\$25



Blue Storm Series
Navigate the Most Powerful Way
Improve PC Speed and Effectiveness

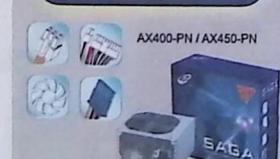
FSP350-60THN-R / FSP400-60THN-R / AX500-A

ZEN-Fanless



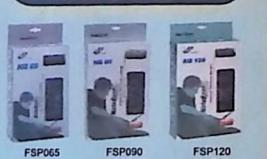
FSP300-60GNF-R

SAGA

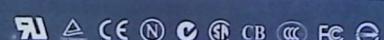


AX400-PN / AX450-PN

NB Series



FSP065-AAB-R / FSP090-1ADC21RN / FSP120-AAC-R


www.fspgroupusa.com

obvious. It worked out that with Fido, instead of paying an average minimum monthly charge of around \$30 when all is said and done on a contract plan, I could stretch that exact sum over two months – doubling my value for money. Sure, I wouldn't get as many monthly minutes, but who needs to take on average more than six one-minute cell calls every single day? Not me. Even if I were to burn through 200 minutes in a month, that would still leave me at the same pricing threshold as the contract plans, and I could top my account up with minutes any time over the 'net.

Next on my list was coverage. Rogers Wireless has the largest integrated voice and data network in Canada with Bell running a close second. Telus, on the other hand, has fairly impressive coverage too, but depends on analog service for a substantial portion of it. Fido, having just announced an arrangement that allows its customers to access the Rogers cellular network, and the fact that their GSM service is available in over 165 countries is now also among the largest. This fact, combined with the tabled pricing structure, gave the nod again to Fido.

Finally, I wanted something that was cool – a phone with a camera, Bluetooth (to interact with my PDA and support wireless headsets), colour screen, Internet access, text messaging and infrared (to connect to my notebook), and I didn't want to pay more than around \$300. While each provider has devices that meet these requirements, none save Rogers and Fido were also able to meet my pricing criteria. The top contenders were the Nokia 6620 from Rogers at \$304 and the Sony Ericsson T610 from Fido for \$300. Both phones had everything I wanted, yet the Nokia had a better screen resolution (176x208 vs. 128x160), the ability to play MP3s and higher camera resolution as well (640x480 vs. 288x352). The T610 is, on the other hand, a little smaller.

In the end I went with Fido and the T610.

Final impressions? Alas, as always, the devil is in the details. I am not often foiled by fine print, but in this case, it seems I was. Fido's much vaunted expanded network and per second billing are only available to those on a monthly contract – and the former at a premium of \$5 per month.

Fido does make it quite painless to transfer over to a contract (what a surprise) and their terms are among the most reasonable in the business. Resistance, it seems, may be indeed futile – but I haven't given up yet!

By Ray Richards



KOATOFC SERVICES Your #1 Computer Consultants



1 PENTIUM 3
256MB, CD-RW, SOUND,
KEYBOARD/MOUSE,
15" MONITOR,
VIDEO 56K MODEM,
USB,NIC
\$412.00

2 PENTIUM 4 C2.66
256MB,
80GB,
DVD-RW, SOUND,
KEYBOARD/MOUSE,
17" FLATMONITOR,
VIDEO 56K MODEM,
USB,NIC
\$665.00

3 AMD 46-3000
512MB,
80GB,
DVD-RW, SOUND,
KEYBOARD/MOUSE,
17" FLATMONITOR,
VIDEO 56K MODEM,
USB,NIC
\$829.00

4 PENTIUM 4 3.0G
512MB
80GB,
DVD-RW, SOUND,
KEYBOARD/MOUSE,
17" FLATMONITOR,
VIDEO 56K MODEM,
USB,NIC
\$930.00

5 NEW & USED LAPTOPS
P2/P3 & P4'S
FREE LEATHER CASE
WITH ALL
LAPTOP PURCHASES
STARTING FROM
\$529.00

* VIRUS & WORMS
Computer running slow?
Spammers? Advertis? Pop Ups?
Full Computer Cleaning
STARTING FROM
\$39.99
* Free Long distance plans available!

Contact Us today at
7171 Torbram Road, Unit 4
Mississauga, Ontario.
L4T 3W4
Ph: 905 461 9508
Toll Free: 1 866 654 0461
Fax: 905 461 9510
E-mail: sales@koatofc.com
www.koatofc.com

Cool New Products @ EfstonScience



EfstonScience carries Canada's largest selection of scientific products. See for yourself at our SuperStore on visit us online at www.eScience.ca



EfstonScience
The Science & Astronomy SuperStore

3350 Dufferin St., Toronto
(416) 787-4581 (888) 777-5255

www.eScience.ca

SPECIAL SAVINGS
IN STORE: \$5 OFF ANY PURCHASE OVER \$50 IN THIS AD
ONLINE: FREE SHIPPING USE PROMO CODE HB85

Hit the road: The crazy world of MP3

So you're looking for a new MP3 player for the remainder of the summer, or maybe a model to take back to school?

Here's a quick overview:

Apple

Between the Shuffle and the iPod Mini, Apple's MP3 players continue to be the hottest thing on the block. The Mini line now comes in two flavours: 4GB (\$249) and 6GB (\$319), which works out to about 1,000 or 1,500 songs. While there's speculation that an 8GB model is right around the corner, there's been no announcement at press time.

While there have been a few rumours of iPod Shuffle models in 2GB and 4GB capacities, the compact screenless player is still only available in 512MB (\$129) and 1GB (\$169) capacities at present.

One interesting note is that all full-size iPods are now photo-enabled, and as such the iPod Photo moniker has been dropped. The 20GB model goes for \$379, and the 60GB version will set you back \$519.

There's continued talk that Motorola will soon announce the new iTunes phone, but as of yet, nothing has materialized.



Creative

After a bit of a slow period, Creative has some big news.

First up, the Zen Micro Photo – first offered as a sneak preview at the Consumer Electronics Show in January – is scheduled to launch in August. Though it still comes with the small OLED screen for showing off small versions of your photos, the player will now come with an 8GB hard drive. Price is to be determined.

The Zen Vision, an updated Portable Media Center design, will also launch in August. Though this player will also feature a 20GB hard drive, the physical size will be much smaller than the original Zen Portable Media Center, and consequently more portable. There's still no ability to record video directly onto the player, but the player will feature a built-in CompactFlash slot, so you can add media from your other portable devices while you're on the road. Price is TBD.

Incidentally, if you were wondering what the Zen Nano is, it's just a renamed version of the MuVo Micro. It's still the same ultra-compact player otherwise, with up to 1GB of flash memory onboard, and a built-in FM tuner.

iRiver

The 5GB version of iRiver's compact H10 hard drive player was so popular that the company also added 1GB, 6GB and 20GB models to the lineup, all with built-in FM tuners in addition to the MP3 and photo display capabilities. All models are now available in the US, with Canadian availability and pricing is still to be determined.

Samsung

The new mantra for the Yp is multimedia, which is why three of the new models feature colour screens with photo display capabilities.

The Yp YH-820 features a 5GB hard drive, and displays photos on its small colour screen. The 20GB YH-925 model also displays photos, but on a slightly larger 1.8-inch (160x128 pixel) display.

Sony

The Walkman brand name has been around for quite some time, but since everything went digital, Sony has had to fight for its place in the portable music space. Earlier this year, the company introduced three new series of the Network Walkman.

The Network Walkman 500 series of flash-based players features the 512MB (\$220) and 1GB (\$280) models, both of which come with a built-in FM tuner. The 400 series models come with 1GB (\$250), 512MB (\$199) or 256MB (\$170), skipping the FM tuner to come in at that cheaper price. Both the 400 and 500 series models feature an internal rechargeable battery in a design that looks almost like a mini hip-flask. If you're looking for something more basic that takes off-the-shelf batteries, the 100 series is a down-and-dirty player with a more basic



design that you won't be afraid of actually using for fear of scuffing up the beautiful shiny design. The player comes in 256 MB, 512MB and 1GB capacities, and all models in the 100 series use a single AAA battery for up to 70 hours of playback.

By Sean Carruthers

Questions and comments relating to the wireless section, including Sean Carruthers' monthly column, can be sent to:
wireless@ppublishing.ca.



The Watch List

Electrovaya PowerPad 300

www.electrovaya.com

\$1039

If you're one of those road warriors who's constantly running out of battery power on your extended jaunts around the globe, Electrovaya may have just the thing for you to stay powered up. The PowerPad 300 is the company's newest external battery solution for notebook computers, and it's no lightweight: it checks in at over 6.5 pounds, but it provides up to 24 hours of continuous runtime for your notebook ... just charge it up, then plug it into your notebook's power port with the proper cable. That's three whole days of nine-to-five work without having to find a place to plug in. The weight will certainly put a strain on your shoulder, but for those who are already lugging around numerous batteries to swap into the notebook, it's a great all-in-one solution.

Safe Power



ASK FOR SAFE POWER



**THE PROFESSIONAL
POWER SUPPLY
FOR A GREAT VALUE!**

DISTRIBUTORS:

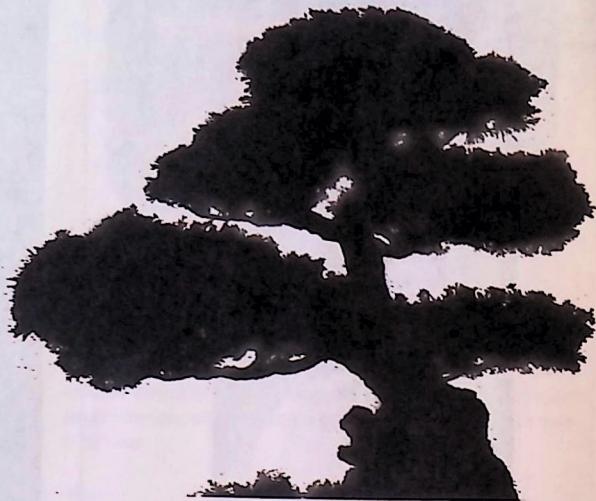
Samtack (905.940.1880)
FTC (905.940.6638)
Tomken Tech (905.565.8839)
Power One (905.948.8000)
Marscomputer.net (905.513.0606)
Plus media (905.513.6588)

Available in 450W & 550W

Also available at
Aplus (416.324.9856)
Technotrade (519) 571-8900

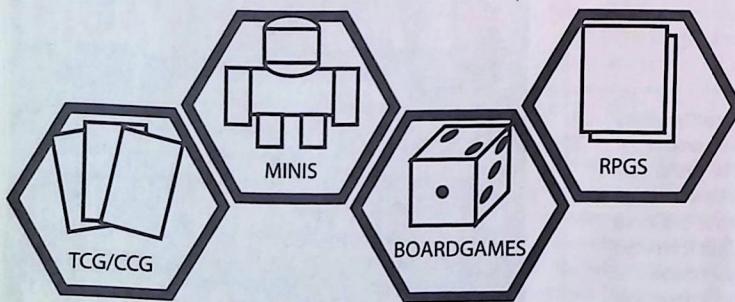
some things in life are

simple

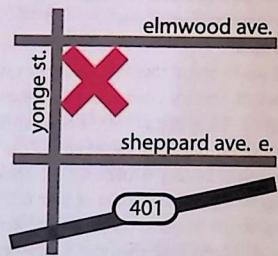


two headed dragon

let's make playing games simple



416 221 5004
www.twoheadeddragon.com
5017 yonge st., 2nd. floor



join us on the 2nd floor
free parking off elmwood ave.

High-Tech High-School



Binders, books and backpacks are far from the only "must-have" tools for students in the 21st Century. Technology, such as an Internet-connected computer, is now a necessity rather than a luxury. Handheld devices, PC peripherals and clever software packages can also help students gain an edge – or at least have a little fun to offset the pressures of exams, report cards and university applications.

The following are a few recommended products to consider when preparing for a brand new school year.



<http://www.guntaiware.com>

Intel Celeron D 2.4GHz

512MB Samsung DDR memory
ASUS P4S800-MX SIS651 Motherboard
80GB 7200rpm HD
52x CD Rewriter
Embedded SIS 3D Graphics
ADI AD1888 5.1 audio
8 USB2.0 port, 10/100 ethernet
Black/Silver Toolless Midtower
80mm Cooling fan
ISO 300W Power Supply
Keyboard & Mouse
Speaker

Celeron D 2.4GHz
Pentium 4 2.4GHz
Pentium 4 2.4GHz

\$387

Intel Pentium 4-530 3.0GHz

Hynix 512MB DDR400 Dual Channel
ASUS P5S800-VI SIS61FX Motherboard
160GB 7200rpm HDD
16x DVD 5x CD Rewrite Combo Drive
ATI X300SE 128MB PCI Express DVI/TV-Out
Realtek ALC861 7.1ch HD Audio
6 USB2.0 port, ULI SATA Raid
Marvell 1000Mbps Gigabit Ethernet
Black/Silver Mid Tower
300W CE Power Supply
2 Channel Speaker
Keyboard and mouse

P4 530 3.0GHz \$576
P4 530 3.0GHz \$768
P4 530 3.0GHz \$938

\$633

AMD Athlon 64 3500+

OCZ Premier 1GB DDR400 Dual Channel
DFI LanParty UT-NF4 Ultra-D Motherboard
WD 250GB SATA 8MB 7200rpm HDD
Pioneer DVR109 16x DVD Writer
nVidia 6600GT 128MB DVI/TV-Out
Karanja 8ch Audio, Dual Gigabit LAN
8 USB2.0 port, 1 firewire port
Dual Gigabit LAN port
ThermalTake Tsunami side window
Tagan 420W Super Silent PSU
Logitech LX300 Cordless Desktop
Subwoofer speaker

Athlon 64 3500 \$1228
Athlon 64 3500 \$1283
Athlon 64 3500 \$1495

\$1373

Intel Pentium 4-640 3.2GHz

64bit, LGA775 2MB L2, Hyper-Threading
OCZ 1GB DDR2 533MHz Dual Channel Memory
ASUS P5GDC-Deluxe Intel 915P DDR2 MB
WD 250GB SATA 8MB 7200rpm HD
Pioneer DVR109 16x DVD Writer
BenQ 16x DVD Rom
ATI Radeon X700Pro 256MB PCIe TV-Out
C-Media 7.1HD Audio, IDE/SATA RAID
8 USB2.0 port, 2 F/W Port, 1gbps LAN
Side Window LED Fan Tower
Tagan 420W 24pin ATX2.0 Dual Fan PSU
Logitech LX300 Cordless Desktop

P4 640 3.2GHz 1M 1159

P4 640 3.2GHz 1M \$1210

P4 650 3.4GHz 2MB \$1459

\$1295

AMD Sempron 2400+

Hynix 256MB DDR400 memory
DFI KM400-MLV VIA MATX Motherboard
80GB 7200rpm HDD
16x DVD Rom
S3 ProkSavage8 3D Accelerator
Realtek 5.1ch Audio
6 USB2.0 port
10/100 Ethernet, SATA Raid
Black/Silver Mid Tower
300W CE Power Supply
2 Channel Speaker
Keyboard and mouse

Sempron 2500+\$341
Sempron 2600+\$368
Sempron 3000+\$585

\$336

AMD Athlon64 3000+

Apacer 1GB DDR400 CL2.5 Dual Channel
MSI K6N NEON-F i-Force4 Motherboard
WD 200GB SATA 8MB 7200rpm HDD
Pioneer DVR109 16x DVD Writer Dual Layer
ATI X300SE 128MB PCI Express DVI/TV-Out
Realtek ALC858 5.1ch Audio
6 USB2.0 port, 1 firewire port
Enermax Tower white window
Enermax 350W Silent PSU
Subwoofer Speaker
Keyboard and mouse

Athlon 64 3200 \$948
Athlon 64 3500 \$938
Athlon 64 3800 \$1057

\$788

First Markham Place, Unit 127

3255 Hwy 7 East, Markham, Ontario

(905) 940-0333

sales@guntaiware.com

 **ELITEGROUP**
BenQ

Enjoyment Matters



Retail Processor w/ Heat Sink & Cooling Fan

Intel P4 Socket 478

2.4 / 2.66
3.0 / 3.2E

AMD Sempron

2500+/2600+
2800+
3000+ (512K)

LCD Monitor

Acer 1715 17" 12ms

Acer 1914 19" 12ms

BenQ T705 17" 13ms

BenQ 737D 17" 10ms DVI

BenQ 71G 17" 8ms

BenQ 931 19" 18ms DVI

LG L1750S 17" 12ms

LG L1950S 19" 12ms

Samsung 710V 17" 12ms

Samsung 710M 12ms

Samsung 913V 12ms

Samsung 910V/913V

Samsung 913V 12ms

Samsung 915H 8ms

\$289

\$425

\$324

\$295

\$315

\$387

\$375

\$275

\$389

\$269

\$335

\$290

\$335

\$420

\$449

\$315

\$147

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

\$125

Laptop

Small, lightweight and wireless, a laptop computer is ideal because students can carry it to and from the classroom, lecture hall or library. Most have integrated WiFi connectivity, which means you can surf the Net wirelessly at high speeds in a "hotspot" such as at a school library, at home or in thousands of Canadian cafés, public libraries and airports. And a round of *Battlefield 2* in between classes may serve as a welcome stress reliever, too. We like the aggressively-priced Dell Inspiron 700m (\$1200 and up) and the super-light Toshiba Libretto U100 (\$2,599) at only two pounds. Tablet PCs are also growing in popularity for the light-weight form factor, long battery life and stylus pen interface, which may be more ideal for note-taking during class.

PDAs

A good student is an organized one. Personal Digital Assistants, such as the Pocket PC or palmOne handhelds, serve as pocket-sized electronic organizers that are also ideal for taking notes during class, recording lectures, calculating mathematical equations, reading digital textbooks, and with some models, wirelessly surfing the Internet for information or communication. Most devices support games, show digital photos, play MP3s and store all your phone numbers, too. The palmOne LifeDrive (\$700) is the first PDA to offer a 4GB built-in hard drive, so you can leave your iPod mini at home!

Wireless Mice and Keyboards

Break free from the cords and cables that tether you to your desk. The

latest computer mice and keyboards are completely wireless, therefore you can kick back in your chair and put your feet up to make your PC interactions more comfortable. What's more, most of these keyboards now offer a number of "hot keys" with one-touch access to the Web, email, instant messaging programs and most importantly, volume control for your favourite tunes. We dig the Microsoft Optical Desktop Elite (\$179) and the Logitech Cordless Desktop MX 3100 (\$199) – both of which includes a high-end wireless mouse and keyboard.

Microsoft Student 2006

You've heard of the Microsoft Encarta Digital Reference Library or perhaps Microsoft Office Student and Teacher Edition – but the Redmond, WA-based software giant has just launched a brand new product for students in middle-school, high-school, college or university. Microsoft Student 2006 (\$99.99) is a comprehensive suite of tools, tutorials and resources that offers help in essay writing, science projects, geography reports and most of all, math students who struggle with the subject (who doesn't).

For example, the amazing software-based graphing calculator complements the handheld graphing calculator required by many math students today. Features include a full-colour display, 2D and 3D charting capabilities and the ability to view, rotate and animate large graphs to help comprehend difficult concepts.

The Microsoft Student 2006 DVD-ROM also includes the full Microsoft Encarta Premium 2006 digital reference library.

Glaucus Green
80% Recycled
New 60G HD
\$599— \$495

Glaucus Soho
60G HD
256M
\$799— \$645

Glaucus Home
250G (250x1)
256M
\$1699— \$995

Glaucus Pro
400G (400x1)
512M Dual CPU
\$1999— \$1395

On Target with Audio and Video Distribution, Storage and much more...

LIMITED TIME OFFER
Discounts of up to 70%
Starting from
Check pricing at
www.digitalglu.com



Digit@Glu
Affordable Audio Accessible Anywhere

The Glaucus stores music and video files and then streams them to audio and video players throughout the house with superb digital or analog sound quality. It also includes an Internet gateway providing firewall, web accelerator, intrusion detection, content filtering as well as a Web server, Virtual Private Network and a backup device for PCs on a home network.

For more information, call us at 416-650-0051 or visit us online at www.digitalglu.com

Glaucus Atlas
1T (250x4)
512M
\$2999— \$1995

Glaucus Titan I
1.2T 3ware
RAID (250x5)
1G
\$5999— \$3995

Glaucus Titan II
2T 3ware
RAID (250x8)
1G
\$9799— \$6495

Glaucus Titan IV
4.4T 3ware
RAID (400x11)
2G
\$14999— \$9995

Music Players with Data Storage

Nothing beats listening to your favorite songs while commuting to and from school or while walking in between classes – but another reason why these gadgets are ideal for students is because most hard-drive players and flash memory devices can also store computer data – such as Word files, PowerPoint presentations, important emails and offline Web pages – so you can easily transport it from one PC to another. And hey, it's faster and cheaper than burning a CD, and reusable. Prices start at about \$30 for a regular USB flash memory stick or about \$80 for one that doubles as a portable MP3 player.

Digital Pens

Students who still prefer to "take notes" during class instead of typing into a laptop or tapping a PDA screen can now have best of both worlds. A few high-tech pens remember everything you write or draw on special paper. Once the pen is docked in its USB-connected charger, it will immediately copy all the hand-written pages to a PC's hard drive for safe keeping, emailing, or yellow "sticky" reminders. With newer versions of products – such as Logitech's Digital io Pen – handwritten notes can also be transcribed into text. At \$299, the Logitech io2 Digital Writing System isn't cheap, but could prove to be invaluable in and out of the classroom.

By Marc Saltzman

JM Computers 416-398-2733

830A Sheppard Ave. West (3 yrs labour 1 yr parts warranty)
www.jmcomputers.ca

Mon-Fri: 10:00-19:00
 Sat-Sun: 10:00-17:00

Monthly Special

17" Acer 1715B LCD \$255	Intel Celeron 2.4G \$289
17" Samsung LCD \$279	Intel Celeron 2.6G \$306
19" Acer 1913B LCD \$339	P4 2.4GHz 1MB \$366
20" Acer Widescreen LCD TV \$549	P4 3.0GHz 1MB \$439
Maxus 8x DVD-R 25pk \$8.99	ASRock P4VMB FSB800 MB
Logitech Cordless KB & Optical Mouse (Retail) \$49.99	256MB DDR400 Brand Ram
Acer Aspire 3502NL CI \$729	80GB 7200rpm / 52x CD RW
Intel Celeron 1.4GHz, 256MB, 40G, 15" TFT, 56K, Lan, DVD+CDRW, Wireless, Linux	ATX 400W Case USB @ Front
Free Keyboard Mouse Speaker	Free Keyboard Mouse Speaker
Intel LGA775 3.0E \$469	Intel LGA775 3.0E \$609
Intel LGA775 3.2E \$519	Intel LGA775 3.2E \$659
Intel LGA775 3.2E \$589	Intel LGA775 3.4E \$739
ASUS P5S800-VM GA775 AGP&PCI	ASUS P5LD2-VM DDR2
256MB DDR400 Brand RAM	512MB DDR2 533 Brand RAM
SIS 661FX 964 / 80GB 7200pm	945G Chipset Intel Graphics
52x32x52x CD RW	160GB SATA 8M Cache
ATX 400W Case USB @ Front	16X DVD RW Dual Layer
Add Only \$32 to \$128B or 160GB	ATX 420W Case USB @ Front
Free Keyboard Mouse Speaker	Free Keyboard Mouse Speaker
AMD Sempron 2400+ \$286	Sempron 3000+ \$754 \$449
AMD Sempron 2600+ \$308	AMD 64 3000+ \$519
AMD Sempron 2800+ \$328	AMD 64 3200+ \$569
AMD Mainboard w/ Video Lan	ASUS KBN S754
256MB DDR400 Brand RAM	512MB DDR400 Brand RAM
80GB 7200rpm / 52x CD RW	ATI Radeon 9250 128M TV
ATX 400W Case USB @ Front	80GB 7200rpm HDD
Free Keyboard Mouse Speaker	16X DVD RW Dual Layer
Cash prices 4% discounted Availability & prices subject to change without notice.	ATX 420W Case USB @ Front
	Free Keyboard Mouse Speaker

Acer AS1690LCI Centrino 1.5G, 15", 256M, 40G, DVD+CDRW \$1089

Asus Z91 Centrino 1.6G, 15", 256M, 40G, DVD+CDRW, 56K, Lan, WGLan, Free Carrying Bag \$999

Asus Z71A Centrino 1.7GHz, 15.4", 512M, 60G, DVD+CDRW, 56K, Lan, WGLan, Free Carrying Bag \$1229

Fujitsu C2330A Centrino 1.7GHz, 15", 512M, 40G, DVD+CDRW, FDD, 56K, Lan, WGLan, XP Home \$1589

Toshiba Sat M40 Centrino 1.7GHz, 15.4", 512MB, 80GB, DVD+CDRW, 56K, Lan, WGLan, Free Carrying Bag \$1769

Intel LGA775 3.0E \$809

Intel LGA775 3.2E \$859

Intel LGA775 3.4E \$939

ASUS P5GD2-X DDR2 Intel 915P

1GB (512x2) DDR2 533 Dual Ch.

Radeon X600Pro PCI-E TV DV

200GB 7200pm 8M SATA

16X DVD RW Dual Layer

ATX 420W Case USB @ Front

Free Keyboard Mouse Speaker

ASUS A8N-E PCI-E

512MB DDR400 Brand RAM

Radeon X600Pro PCI-E TV DV

200GB 7200pm 8M SATA

16X DVD RW Dual Layer

ATX 420W Case USB @ Front

Free Keyboard Mouse Speaker



 **ROGERS**
WIRELESS
AUTHORIZED DEALER

MUSIC PHONES. MUSIC FEATURES. LIVE OUT LOUD.

MUSIC PHONES STARTING FROM \$29.99

ALL NO COUPON

Global Wireless Solutions Inc.

548 Church Street

Toronto

416-644-9094

Loaded with Music Features: #DJ, celebrity voicemail, RealTrax CallerID, RealTrax Ring Tunes

MUSIC DOWNLOAD BONUS: 3 RealTrax Ring Tunes per month for 3 months,
 PLUS 3 months of unlimited minutes and messages.*

Offers are subject to change without notice. Up to 3 music downloads per month for 3 months if supported by your phone. Offers available only on new activations of select 24- and 36-month plans. *Offer includes 3 months of unlimited local calling and unlimited text messaging, excluding premium messages (roaming, international, MSN3D Alerts, contests and promotions), picture messaging and video messaging if supported by your phone. *Trademarks of Rogers Wireless Inc. of Rogers Communications Inc. used under license. ©2005

In the Groove

Publisher: RedOctane **Developer:** Roxor Games **Platform:** PlayStation 2

In the Groove is RedOctane's first foray into game publishing after making a name for itself as a manufacturer of quality third-party dance mats for the home versions of Konami's Dance Dance Revolution franchise.

It's perhaps not surprising, then, that In the Groove owes a lot to Dance Dance Revolution conceptually. The game uses the same dance mat controller and features the same familiar arrows that scroll down the screen, requiring players to tap the corresponding arrows on the dance mat in time with the musical track.

That said, In the Groove does bring some interesting innovations to the table that tweak the formula for the better.

In addition to a slew of aesthetic customization options, the game also

features a great workout mode. Although workout modes have become the standard in dancing games, In the Groove's is probably the most effective to date. You can tailor an exercise session by choosing either a certain amount of time

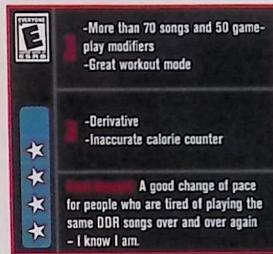
to dance, or a certain number of calories to burn, then set the game to "non-stop" mode and let it cycle through an endless supply of songs without break until the goal has been reached. (Contrary to other games' workout modes that don't offer a non-stop mode to keep your heart rate elevated.) All in all, the workout mode is one of In the Groove's strongest features, despite the fact that its calorie counter is basically useless (the suggestion that 20 minutes of dancing burns 1,000 calories seems a tad optimistic ...)

Two other innovations of note are mines that litter the field in more advanced songs that explode and deplete the life bar if a foot is left down too long (requiring the player to rethink traditional DDR gameplay of leaving the feet down as long as possible), and the fact that three or even four arrows sometimes need to be pressed simultaneously,

requiring the hands or knees to get involved.

With a fresh songlist and a interesting twists on a traditional formula, In the Groove is a nice change of pace for dancing game fans and a good entry point into the genre as well.

By Erin Bell



www.shoprbc.com

Unmatched service, low prices and huge product selection.

Flat Rate Shipping!

\$10 for standard, \$15 for expedited - Any weight, any amount, anywhere across Canada

ResellerRatings.com - 10/10

Read our reviews and find out why our customers praise our service, pricing and website.

5002WLMi Notebook

sale



Regular Price \$1229.00

\$1145.00

Kingston Data Traveler 256MB USB2.0 Key

sale



Regular Price \$39.00

\$29.00

Logitech Headphones Wireless for iPod

sale



Regular Price \$179.00

\$139.00

HDA Digital X-Mystique 7.1 Gold Sound Card

sale



\$145.00

HP nx6125 Turion64 Notebook

sale



Regular Price \$1395.00

\$1275.00

Creative Zen Micro 5GB MP3 Player

sale



Regular Price \$269.00

\$225.00

Linksys WME54AG 802.11g Media Center Receiver

sale



Regular Price \$349.00

\$319.00

Logitech MX3000 Cordless Keyboard & Mouse

sale



Regular Price \$119.00

\$98.00

HP iPAQ h6325 Pocket PC / Cell Phone

sale



Regular Price \$749.00

\$689.00

Seagate 200GB 7200RPM 8MB IDE Hard Drive

sale



Regular Price \$135.00

\$119.00

visit us online today at www.shopRBC.com or give us a call 1-866-RBC-4-AMD

Pricing and/or product availability is subject to change. Limited quantities available on some advertised items. We reserve the right to limit quantities sold. Advertised prices do not include shipping and handling fees. © shopRBC.com/RB Computing Inc. All rights reserved. We are not responsible for any typographical errors.

Still Life

Publisher: The Adventure Company Developer: Microdroids Platform: Xbox, PC

Still Life has one of the most gripping, mature and immersive storylines in recent memory. It spins an intriguing tale of murder and mystery, tinged with brutality and the macabre, and fleshes the plot out with believable and endearing characters. The only problem is that it all falls apart in the last two minutes. The story centres around Victoria McPherson, an FBI agent in Chicago who is on the hunt for a serial killer responsible for a string of gruesome murders – the victims all women. While putting around in her father's attic, Victoria stumbles upon the case files of her grandfather, private investigator Gustav McPherson, which describe a series of murders in 1920s Prague that bare an eerie



resemblance to the work of the present-day killer.

The investigations of Gus and Victoria become intertwined as the player controls each of them alternately.

Because the game is a point-and-click adventure, it's impossible for

either Gus or Victoria to die. Without the constant threat of physical danger and relying on survival-based reflexes, the game instead unfolds like an interactive story book with the player as an active participant.

Pacing is good, thanks to design decisions that leave out a lot of the baggage that can sometimes weigh down adventure games (there aren't a lot of superfluous books or documents to sift through looking for obscure clues, for example, and area puzzles generally use objects that can be found in the same area to negate a lot of backtracking.)

Puzzles, when they do arise, generally aren't too obtuse either, save for a few really nasty ones that involve lockpicking and baking cookies.

To explain why Still Life comes up short of being a complete masterpiece would mean giving away spoilers; suffice it to say, the ending is a

cop-out. Although developer Microdroids obviously left things open for a sequel, the studio has since been absorbed by Ubisoft Montreal so it doesn't look like we'll be getting one any time soon. Pity.

By Erin Bell

Conker: Live and Reloaded

Publisher: Microsoft Game Studios
Developer: Rare Platform: Xbox
ESRB: M
Star rating: 3.5

Gamers who played Conker's Bad Fur Day for the Nintendo 64 already know the single-player drill. Obscure objectives uncovered while running from scripted checkpoint to scripted check point – marked with varyingly amusing cutscenes – in a pseudo platform run through a satirical and sometimes cute 3D adventure world. Throw in some shooting elements and a few vehicular missions like hoverboarding over molten lava and you get the idea.

What's new is an extensive online element that allows for up to 16 players at a time with reasonably balanced user-selected character classes like Sneaker, a stealth character; sniper, and grunt. Gamers compete in a variety of games in well-designed matches on well-designed maps. Players can stay on the ground and use a good variety of weapons to take out the opposing forces or jump into one of several vehicles, land- or air-based. For Xbox Live gamers, the online portion of Conker pushes it beyond the sometimes lacklustre single-player gameplay.

Split-screen and bot matches might help with the value proposition for non-Live gamers as both play well.

By Andrew Moore-Crispin

Fantastic 4

Publisher: Activision Developer: 7 Studios Platform: Xbox, PlayStation 2, Gamecube

It's hard not to compare Fantastic 4 to the superb X-Men Legends. The two share the same four-character co-operative beat 'em up gameplay, where the player can switch between each of the characters on the fly to access various special moves and combo attacks.

However, Fantastic 4 is simply not as polished or engaging. Part of the problem may be that while X-Men Legends drew exclusively on the rich comic book lore of the X-Men universe for its inspiration, Fantastic 4 is loosely based on the recently-released Fantastic Four film, which has been getting lukewarm reviews.

Perhaps that's the reason for a plot that seems flat and hurried, with bland levels that seem designed to push the characters through as quickly as possible.

Though uninspired and a tad buggy (the wonky camera especially), Fantastic 4 is hardly a train wreck. The gameplay is decent beat 'em up fare, and the four heroes do have one or two interesting moves. The game's environments are destructible to a degree, and there's a great deal of satisfaction to be had by rampaging around as The Thing reducing the surroundings to rubble and flinging enemies around like rag dolls.

Fantastic 4 also features the requisite nifty unlockables, including comic book excerpts and covers, character bios and interviews.

By Erin Bell

Teen
-Two player co-op mode
-Actors from the film provide voices for the characters
-Cool unlockables

★ ★ ★ ★ ★
-Uninspired, generic fare
-Repetitive gameplay not bolstered by a strong plot

Final Thought: It could be a lot worse – but it could be better, too.



187 RIDE OR DIE

DRIVE BEAST RULE

They took over your neighbourhood...
They shot your mentor...



The perfect mix of **DRIVING & SHOOTING** : Boost, drift and swerve through South Central's crowded streets in one of the game's 30 cars, and defend your block with 14 black-market weapons

Endless **REPLAY** value : Build a lethal driver/gunner team in co-op, or destroy rivals in ruthless 2-player split-screen / online multiplayer races.

A **MOVIE-LIKE** casting : Voiceovers and likenesses of rising Hollywood and rap stars : **LARENZ TATE** (Ray) **NOEL GUGLELMI** (The Fast and the Furious) and **GUERRILLA BLACK**

STARRING Larenz TATE, Noel GUGLELMI
and Guerilla BLACK

SOUNDTRACK BY
GUERRILLA BLACK

www.187game.com



XBOX
LIVE



PlayStation 2



PSP

NETWORK PLAY



www.ubi.com/ca



Available August 2005

Bomberman

Publisher: Ubisoft **Developer:** Hudson
Platform: Nintendo DS **Star Rating:** 3
ESRB: E

The Bomberman franchise is now 20 years old and still apparently going strong. But while recent additions to the series have taken Bomberman in new directions (such as the 3D platformer Bomberman Jetters), developer Hudson and publisher Ubisoft have decided to play it safe with Bomberman's Nintendo DS debut. In essence, the gameplay of this most recent title remains preserved in amber from the 1985 version of Bomberman for the Nintendo Entertainment System: Bomberman must bomb his way through a grid of obstacles — some explodable and some not — collecting power-ups, destroying enemies, and ultimately trying to find his way to the end gate before time expires, an enemy touches him, or he accidentally blows himself up — whichever comes first.

One innovation to speak of is that the lower screen of the DS is used as an inventory window, meaning that items can be stored and used later instead of activating the moment Bomberman runs over them.

While single player mode doesn't have the addictiveness of truly classic puzzlers, the multiplayer mode is, as always, excellent.

By Erin Bell

Good:

- One hundred stages
- Eight player multiplayer with one game card

Bad:

- Single player isn't up to par with truly classic puzzle games

Final thought:

Party like it's 1985.



Kirby: Canvas Curse

Publisher: Nintendo **Developer:** HAL Laboratories

Kirby takes a new approach to platform gameplay in Canvas Curse. In traditional platformer style, players hit timed jumps, solve little gamepuzzles to find power-ups and collectibles and defeat enemies along the way. It's all pulled off in a decidedly non-traditional way, however.

Nintendo calls the game a "touch platformer." The DS face buttons don't factor in to the gameplay at all. Rather, players draw rainbow lines using the DS' stylus for Kirby — in ball form — to travel along. The direction in which lines are drawn determines Kirby's direction of travel.



Players can create ramps to launch our pink protagonist skyward or draw loops to give him a burst of speed.

Along the way, players tap enemies with the stylus to stun them or tap Kirby himself to give a



spinning burst of speed that also takes out enemies. Some enemies give up special abilities that factor into the gamepuzzles. The non-traditional control scheme takes some getting used to, but feels very natural once the learning curve has been overcome.

By Andrew Moore-Crispin

- Excellent use of the DS hardware
- Interesting boss battles
- Unlockables give replay value

- Gameplay learning curve
- Sometimes frustrating

Final thought: The perfect platform realization of Nintendo's unique DS hardware.

Riviera: The Promised Land

Publisher: Atlus Software **Developer:** Sting **Platform:** Game Boy Advance

It's always refreshing to see a role-playing game that puts a twist on some of the genre's more entrenched gameplay traditions — in this case, by abandoning the aimless wandering around and incessant random battles that can make RPGs so annoying.

Instead, characters travel from one "screen" to the next, with the option to "Move" to the next screen or "Look" at various objects in the surroundings which can be investigated further (i.e. opening a treasure chest or investigating a suspicious looking tangle of vines on a wall.)

Battles, like dialogue, are scripted events that happen at set places throughout the adventure. Some of Riviera's genre twists are less successful. The decision to severely limit the inventory capacity results in having to constantly delete items to make room for new ones. As



well, only four items can be taken into battle to be shared among the three members

of the party. Item hoarders will find these adjustments hard to make.

The requirement of "turn points" to investigate most of the objects in the environment can also put a damper on the adventuring, since once the points run out, it's impossible to do anything except move. It's hard to know when to spend points or hoard them for later — and once each area is cleared, there's no going back to check those unopened chests or unexplored nooks and crannies.

By Erin Bell

- Unique level-up system based on equipment
- Adventure not plagued by random battles

- Restricted inventory takes some getting used to
- "Turn points" restrict exploration

Final thought: This streamlined approach to the RPG isn't without flaws, but is unique enough to be worth a look.

Think Power, think *Enermax*

Enermax power supply specialized for SLI system. nVIDIA certificated.

All brand names are trademarks or registered trademarks of their respective companies.

Authorized Dealers:

Tollfree: 1-877-289-2360

A Power Computer 604-273-8868	Anitec Computer 604-435-2038	Bcom Computer 780-471-8855	Calitech Computer 403-245-9262	Canada Computer 905-946-5688	Cellar Computer 902-429-0013	Computers & Peripherals 416-667-1668	Computer Avenue 204-783-8999	Computer Boulevard 204-772-1088	Computer Rack 403-250-5101
Deals Direct Computer 613-744-6370	EverBest Computer 613-224-1434	Fans PC 905-513-9165	Grey-Tech Computer 905-470-1425	Guntal Ware 905-940-0333	ICCT.CA 905-513-9335	InfoMedia 418-725-3464	J Netronics 905-948-1428	Logic Computer House 905-415-0909	Mega PC 514-341-4119
Memory Express 403-253-5676	MPT Computers 416-292-0533	Mysterbyte 902-453-2983	Netlink 604-451-8682	Ordicentre 450-671-8555	OTA Computers 416-992-1177	PC Cyber Computer 613-224-9995	PC Village 905-889-5488	Southampton 506-384-5500	Tomken Technologies 905-625-9889

Get in the game: Videogame design post-secondary



Gone are the days when entire videogames were created by teams of two or three people doubling as programmer, artist, animator, writer, producer, level designer and audio engineer.

And gone too are the days when a bit of self-taught tech know-how and a whole lot of enthusiasm would guarantee you a job in the industry.

Now, with many of today's games having the production values and technical sophistication of Hollywood movies, it's not surprising that the size of an average production team on an A-list title has swelled to the hundreds, with each person filling a highly specialized role.

"Considering the high quality of our games, we really consider a [college or university] degree to be a necessary part of working here," says Frederick Brassard, talent network specialist at Ubisoft Montreal.

Another advantage of getting a degree or diploma in a game-related subject, according to Dave Warfield, program director of the Game Design program at the Vancouver Film School, is that it allows graduates to vault over the traditional game studio entry-level position for unqualified individuals: the demanding, repetitive role of the game tester.

"That's how the industry grew to where it is now, by friends recruiting friends, by starting off as a game tester and moving your way up," says Electronic Arts spokesperson Tammy Schachter. "But the industry is now at a crossroads where it has become mainstream entertainment and is on the verge of becoming very, very big business, and we can't continue to grow by trial and error."

"We need to have people entering the business who are already knowledgeable and not starting from ground zero."

Edmonton-based BioWare prefers candidates for programming and tech design positions to have a computer science or software engineering degree as well as a few years of software experience, according to HR Coordinator Leanne Korotash.

For art positions, where creativity and artistic talent is as important as the training, companies may also admit people based on the strength of a portfolio. But as Theresa Baxter, also an HR Coordinator at BioWare, points out, "a good portfolio will be best supported by receiving training from a reputable technical, film, or digital media program." For artists, she suggests a degree or diploma in fine arts that combines natural artistic skill with knowledge in digital techniques (modeling, texturing, animation) and popular programs such as Maya.

Canada's largest game studios frequently trawl for new recruits at Canadian universities and colleges with strong programs in computer science and software engineering (such as the Universities of Victoria, Alberta, Toronto, Calgary, Western Ontario, Waterloo, Simon Fraser and Dalhousie) and art and animation (such as the University of British Columbia, Emily Carr Institute, Vancouver Film School, Sheridan College and Seneca College).

Several schools also offer specialized game-related courses. Through partnerships with Cégep de Matane and Université de Sherbrooke, Montreal's Ubisoft Campus (www.ubisoftcampus.com) offers courses in production, programming, 3D animation, 3D modeling and level design. Students can take a 45 week college program or pursue a graduate degree in computer science or software engineering including courses in programming, digital imaging and electronics.

This April, McMaster's Faculty of Engineering introduced the first software engineering program in Canada to focus on game design (<http://gamer.mcmaster.ca/index.html>). Students completing a bachelor's degree in software engineering can opt to enter the game design specialization after first year and focus on game-related applications like creating physics and rendering engines and user interfaces to become qualified for the positions of project lead, user interface designer, and core programmer.

The Vancouver Film School (www.vfs.com) offers a one-year diploma in Game Design. Headed by former Electronic Arts Senior Producer Dave Warfield, the program offers a well-rounded curriculum emphasizing the creative skills of game development, such as game theory, cinematics, art, animation, storyboarding, creative writing, and production methodologies. According to Warfield, graduates would be suited to fill some of the creative "visionary" positions on a game development team, such as game designer, level designer, or producer.

Regardless of what school a student chooses, the companies we spoke to stressed that it's not necessarily just the school, but also what the student absorbs and learns from the education that's important.

By Erin Bell

Who's hiring?

Studios are constantly updating their job postings online, so check out these Web sites for info on the latest company openings in Canada:

Beenox (Quebec City) www.beenox.com/index_en.html

BioWare (Edmonton) www.bioware.com/bioware_info/jobs/

Digital Extremes (Toronto) www.digitalextremes.com/employment.htm

EA Canada (Vancouver, Montreal)

<http://jobs.ea.com/plj/ElectronicArts/Canada/applicant/index.jsp>

Gameloft (Montreal) www.gameloft.com/corpo_jobs.php?job_country=38

Orbital Media (Calgary) <http://orbitalmedia.ca/jobs.htm>

Pseudo Interactive (Toronto) www.pseudointeractive.com/jobs.shtml

Radical (Vancouver) www.radical.ca/careers/open_positions.html

Relic Entertainment (Vancouver) www.relic.com/careers/careers.php

Rockstar Vancouver www.rockstervancouver.com/rstar_careers.htm

Ubisoft Montreal <http://jobs.ubisoft.ca/en/>



or

No Tape.
No Disk.
Over 24 Hours
Recording.



Just one small camcorder
with a hard disk drive.

No tape. No disk. This palm-sized Everio G Series Camcorder records over 24 hours of video on a high-capacity internal hard disk drive. It also lets you easily delete and rearrange your footage while on the go. Vacationing, at family events or sports events, just pack your little Everio and go. No cassettes or disks to carry or lose. And Everio's multi-connectivity lets you share all your memories instantly. It's your own portable video scrapbook. Everio from JVC.



LONG TIME, HIGH
QUALITY VIDEO



SUPER LIGHT
WEIGHT



NO ADDITIONAL
RECORDING MEDIA



DIRECT ACCESS TO
SCENES YOU WANT



SAFE & SECURE
HARD DISK
TECHNOLOGY



DVD CREATION &
EDITING SOFTWARE
SUPPLIED



EASY CONNECTION
FOR VIEWING AND
SHARING

Everio
HARD DISK CAMCORDER

G
Series

GZ-MG20

■ 20GB HDD
■ 25X Optical Zoom



NEW

GZ-MG30/35

■ 30GB HDD
■ 25X Optical Zoom



NEW

GZ-MG40

■ 20GB HDD
■ F1.2 Super Bright Lens



NEW

GZ-MG50

■ 30GB HDD
■ F1.2 Super Bright Lens



NEW

**2 Megapixel
UXGA**



GZ-MC100

■ Pocket Style
■ 2 Mega Pixel
CCD-DVD Quality Video
■ Built-in Digital Still Function

**MPEG-2
DVD-Quality**

GZ-MC200

■ Cube Style
■ 2 Mega Pixel
CCD-DVD Quality Video
■ Built-in Digital Still Function
(1620x1240)



Also available

3CCD+5 MEGAPIXEL
DIGITAL VIDEO

GZ-MC500

■ Professional & Cube Style
■ 3 CCD Chip System/Crystal Clear Video
■ 5 Mega Pixel Digital Still Built-in



Visit our website at: www.jvc.ca

Everio
DIGITAL MEDIA CAMERA

C
Series



*Your printer is like your car.
Make sure it has a good engine.*



Samsung is the second largest laser engine manufacturer in the world.

As the world's second largest laser engine provider,¹ Samsung isn't just in the printing business. We are the printing business. And we've been driving the industry for over 20 years² with printing technologies so reliable, even other printer companies are using it. So, if you want a dependable printer, from networkable colour lasers, to intuitive multifunction solutions, there's only one brand you need to get you where you want to go. www.samsung.ca

**Samsung printers.
Samsung. Inside and out.**

SAMSUNG

©2005 Samsung Electronics Canada, Inc. Samsung is a registered trademark of Samsung Electronics Co., Ltd. All product and brand names are trademarks or registered trademarks of their respective companies. Check with your local computer dealer for availability and pricing. Based on IDC Worldwide Quarterly Printer Tracker Q4 2004; ²Samsung Electronics Co., Ltd.